abl gene. Homo Lung cancer associ

## ALIGNMENTS

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AAQ46688
       AAQ46688 standard; cDNA to mRNA; 1611 BP.
ID
XX
AC
XX
DT
XX
DE
XX
KW
XX
OS
XX
PN
XX
PP
XX
PR
XX
PR
XX
PR
XX
PT
PT
                                      / -
       AAQ46688;
        23-DEC-1993 (first entry)
        Human pp60 c-src gene.
        Endothelial; tyrosine kinase protein; pp60 c-src; ss.
        Homo sapiens.
        WO9314193-A.
         22-JUL-1993.
                             93WO-US000445.
         05-JAN-1993;
                               92US-0820011.
         06-JAN-1992;
         (UYYA ) UNIV YALE.
         Bell L. Luthringer DJ, Madri JA, Warren SL;
         WPI; 1993-243209/30.
P-PSDB; AAR39705.
          Genetically engineered endothelial cells - which exhibit enhanced cell migration, urokinase-type plasminogen activator activity, and reduced mononuclear cell adhesion and fibronectin prodn
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Disclosure; Page 69-72; 91pp; English.

The DNA encoding a portion or (more preferably) the entire pp60 c-src polypeptide is used to transform endothelial cells. Transformed cells produce increased amounts of pp60 c-src and have improved therapeutic properties. They migrate at faster rates than non-transformed counterparts; have an enhanced ability to inhibit the formation of thrombi and/or dissolve thrombi once they have formed and exhibit reduced mononuclear cell adhesion. They can also be used to improve the success of surgical procedures such as coronary angioplasty, heart bypass surgery, vessel graft and stent implantation.

Sequence 1611 BP; 334 A; 507 C; 504 G; 266 T; 0 other;

pry Match 1610; Conservative 99.9%; Score 1609.4; DB 14; Length 1611; ft Load Similarity 99.9%; Pred. No. 2.9e-294; Indels 0; Gaps 0; ft Local Similarity 99.9%; Pred. No. 2.9e-294; Indels 0; Gaps 0; ft Local Similarity 99.9%; Pred. No. 2.9e-294; Indels 0; Gaps 0; ft Local Similarity 99.9%; Pred. No. 2.9e-294; Indels 0; Gaps 0; ft Local Similarity 99.9%; Pred. No. 2.9e-294; Indels 0; Gaps 0; ft Local Similarity 99.9%; Pred. No. 2.9e-294; Indels 0; Gaps 0; ft Local Similarity 99.9%; Mismatches 1; Indels 0; Gaps 0; ft Local Similarity 99.9%; Mismatches 1; ft Local Si

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RESULT

## ALIGNMENTS

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RESULT 1
US-07-820-011A-3
; Sequence 3, Application US/07820011A
; Patent No. 5336615
; GENERAL INFORMATION:
; APPLICANT: Bell, Leonard
; APPLICANT: Madri, Joseph A.
; APPLICANT: Warren, Stephen L.
; APPLICANT: Luthringer, Daniel J.
; TITLE OF INVENTION: Genetically Engineered
; TITLE OF INVENTION: Endothelial Cells Exhibiting Enhanced
; TITLE OF INVENTION: Migration
; TITLE OF INVENTION: and Plasminogen Activator Activity
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Maurice M. Klee'
; STREET: 1951 Burr Street
; CITT: Fairifield
; STATE: Connecticut
; COUNTRY: USA
; IP: 06430
; COMPUTER: READABLE FORM:
; MEDIUM TYPE: 5.25 inch, 360 Kb storage
; COMPUTER: IBM PC XT
; OPERATING SYSTEM: PC-DOS/MS-DOS 2.10
; SOFTWARE: Displaywrite 3
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/820,011A
; FILING DATE: 19920106
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Klee, Maurice M.
; REGISTRATION NUMBER: 30,399
; REFERENCE/DOCKET NUMBER: LB-101
; TELECOMMUNICATION INFORMATION:
                                REGISTRATION NUMBER: 30,399
REFERENCE/DOCKET NUMBER: LB-101
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203) 255 1400
TELEFAX: (203) 254 1101
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1611
                                                 LENGTH: 1611

TYPE: NUCLEIC ACID
STRANDEDNESS: Double ,
TOPOLOGY: Linear
MOLECULE TYPE: CDNA to mRNA
HYPOTHETICAL: NO
                                                  ANTI-SENSE: NO
ORIGINAL SOURCE:
                                                   ORGANISM: Homo sapien
POSITION IN GENOME:
CHROMOSOME/SEGMENT: Chromosome 20
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US-07-820-011A-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 99.9%; Score 1609.4; Best Local Similarity 99.9%; Pred. No. 0; Matches 1610; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS: Anderson, Stephen K.
AUTHORS: Glbbs, Carol P.
AUTHORS: Tanaka, Akio
AUTHORS: Kung, Hsing-Jien
AUTHORS: Kung, Hsing-Jien
AUTHORS: Fujita, Donald J.
TITLE: Human Cellular src Gene:
TITLE: Nuclectide Sequence and Derived Amino
TITLE: Acid Sequence of the Region Coding for
TITLE: the Carboxy-Terminal Two-Thirds of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PUBLICATION INFORMATION:
                             181
                                                                                                                                                                                                                                                                                      121 ccagcctcggccgacggccaccgcggccccagcggcccttcgcccccgcggcgccgag 180
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AUTHORS:
                                                                                                                                                                                                                                                                                                                                  121 CCAGCCTCGGCCGACGGCCACCGCGGCCCAGCGCGCCTTCGCCCCCGCGGCCGCCGAG 180
481 tcagagoggttactgotcaatgoagagaaccogagagggacottcotogtgogagaaagt 540
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AUTHORS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ISSUE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 ATGGGTAGCAACAAGAGCCAAGGCCAAGGCAGCCAGCCGGCGCAGCCTGGAGCCC 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       May, 1985
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Gibbs, Carol P.
Arthur, Richard R.
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119-09-44

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                      Human pp60 c-src protein.
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                       Endothelial; tyrosine kinase protein; pp60 c-src; ss.
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                       06-JAN-1992;
                                                  92US-0820011.
                        (UYYA ) UNIV YALE.
               XX
                        Bell L, Luthringer DJ, Madri JA, Warren SL;
               PI
                        WPI; 1993-243209/30.
DR
                        P-PSDB; AAR39705.
               DR
                       Genetically engineered endothelial cells - which exhibit enhanced cell migration, urokinase-type plasminogen activator activity, and reduced mononuclear cell adhesion and fibronectin prodn
               XX
               Disclosure; Page 75-77; 91pp; English.
                       The DNA encoding a portion or (more preferably) the entire pp60 c-src polypeptide (Given in AAQ46688) is used to transform endothelial cells. Transformed cells produce increased amounts of pp60 c-src and have improved therapeutic properties. They migrate at faster rates than non-transformed counterparts; have an enhanced ability to inhibit the formation of thrombi and/or dissolve thrombi once they have formed and exhibit reduced mononuclear cell adhesion. They can also be used to improve the success of surgical procedures such as coronary angioplasty, heart bypass surgery, vessel graft and stent implantation.
                         implantation.
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260 !
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                                        seq_documentation_block:
                                                Sequence 4, Application US/07820011A
Patent No. 5336615
                                                   Patent No. 5336615

GENERAL INFORMATION:
APPLICANT: Bell, Leonard
APPLICANT: Madri, Joseph A.
APPLICANT: Warren, Stephen L.
APPLICANT: Luthringer, Daniel J.
TITLE OF INVENTION: Genetically Engineered
TITLE OF INVENTION: Endothelial Cells Exhibiting Enhanced
TITLE OF INVENTION: Migration,
TITLE OF INVENTION: and Plasminogen Activator Activity
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Maurice M. Klee
                                                             CORRESPONDENCE ADDRESS:
ADDRESSEE: Maurice M. Klee
STREET: 1951 Burr Street
CITY: Fairifield
STATE: Connecticut
COUNTRY: USA
ZIP: 06430
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb storage
COMPUTER: IBM PC XT
OPERATING SYSTEM: PC-DOS/MS-DOS 2.10
SOFTWARE: Displaywite 3
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/820,011A
FILING DATB: 19920106
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
   36
                                                        CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Klee, Maurice M.
REGISTRATION NUMBER: 30,399
REFERENCE/DOCKET NUMBER: LB-101
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203) 255 1400
TELEFAX: (203) 254 1101
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 536 amino acids
TYPE: AMINO ACID
TOPOLOGY: Linear
MOLECULE TYPE: Protein
HYPOTHETICAL: NO
FRAGMENT TYPE: Complete Sequence
ORIGINAL SOURCE:
ORGANISM: HOMO Sapien
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   1
5737
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                                                                    ORGANISM: Homo sapien
PUBLICATION INFORMATION:
  509
                                                                           UBLICATION INFORMATION:
AUTHORS: Anderson, Stephen K.
AUTHORS: Gibbs, Carol P.
AUTHORS: Tanaka, Akio
AUTHORS: Kung, Hsing-Jien
AUTHORS: Fujita, Donald J.
TITLE: Human Cellular src Gene:
TITLE: Nucleotide Sequence and Derived Amino
TITLE: Acid Sequence of the Region Coding for
TITLE: the Carboxy-Terminal Two-Thirds of
TITLE: pp60c-src
     12
                                                                                                               pp60c-src
                                                                              JOURNAL: Molecular and Cellular Biology VOLUME: 5 ISSUE: 5
                                                                      PAGES: 1122-1129
DATE: May, 1985
PUBLICATION INFORMATION:
                                                                               AUTHORS: Tanaka, Akio
AUTHORS: Gibbs, Carol P.
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AUTHORS: AUTHORS: AUTHORS:

Arthur, Richard R.

Anderson, Stephen K. Kung, Hsing-Jien

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US-09-444-711-1 x US-07-820-011A-4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PAGES: 1978-1983
DATE: May, 1987
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VOLUME:
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Ratio: 5.287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA Sequence Encoding the Amino-Terminal Region of the Human c-src Protein: Implications of Sequence Divergence among src-Type Kinase
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us-09-444-7.

seq\_name: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep:US-08-426-

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Result
No.
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Listing first 45 summaries
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Copyright (c) 1993 - 2000 Compugen Ltd.
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## ALIGNMENTS

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and reduced mononuclear cell adhesion and fibronectin pro	cell migration urckinage-tune placeinogen activates acti		P-PSDB; AAR39705.	WPI; 1993-243209/30.		Bell L, Luthringer DJ, Madri JA, Warren SL;		(UYYA ) UNIV YALE.		06-JAN-1992; 92US-0820011.		05-JAN-1993; 93WO-US000445.		22-JUL-1993.		W09314193-A.		Homo sapiens.		Endothelial; tyrosine kinase protein; pp60 c-src; ss.		Human pp60 c-src gene.	as the total (title duct)	23-DEC-1993 (first ontry)		AAQ46688;		AAQ46688 standard; cDNA to mRNA; 1611 Bp	AAQ46688	17.9 1

Genetically engineered endothelial cells - which exhibit enhanced cell migration, urokinase-type plasminogen activator activity, and reduced mononuclear cell adhesion and fibronectin prodn

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PAGES: 1978-1983;
DATE: May, 1987
US-07-820-011A-4
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                                 rGluGlyAspTrpTrpLeuAlaHisSerLeuSerThrGlyGlnThrGlyT 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       : Kung, Hsing-Jien
: Fujita, Donald J.
DNA Sequence Encoding the
Amino-Terminal Region of the Human c-src
Protein: Implications of Sequence
Divergence among src-Type Kinase
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	184	GlyAlaTyrCysLeuSerValSerAspPheAspAsnAlaLysGlyLeu CGTGAAGCACTACAAGATCCGCAAGCTGGACAGCGGGGGGTTCTACAT	200
	201	ASnValLySHisTyrLysIleArgLysLeuAspSerGlyGlyPheTyrIl 2	17
		ACTACT 7	00
	217	ThrSerArgThrGlnPheAsnSerLeuGlnGlnLeuValAlaTyrTyrS	34
		IGTGCCACCGCCTCACCACCGTGTGCCCCACG 7	50
	234	rLysHisAlaAspGlyLeuCysHisArgLeuThrThrValCysProThr 2	50
	751 251	TCCAAGCCGCAGACTCAGGGCCTGGCCAAGGATGCCTGGGAGATCCCTCG 8	00 67
	801	GAGTCGCTGCGGCTGGAGGTCAAGCTGGGCCAGGGCTGCTTTGGCGAGG 8	50
	267	gGluSerLeuArgLeuGluValLysLeuGlyGlnGlyCysPheGlyGluV 2	84
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	1101	GACATGGCTGCTCAGATCGCCTCAGGCATGGCGTACGTGGAGCGGATGA 1	150
	367	etAlaAlaGlnIleAlaSerGlyMetAlaTyrValGluArgMetA 3	84
•	1151 384	ACTACGTCCACCGGGACCTTCGTGCAGCCAACATCCTGGTGGGAGAGAAC 1	200
	1201	CTGGTGTGCAAAGTGGCCGACTTTGGGCTGGCTCGGCTC	250 17
	1251	CACGGCGCGCGAAGGTGCCAAATTCCCCATCAAGTGGACGGCTC 1	
	417	GluTyrThrAlaArgGlnGlyAlaLysPheProTleLysTrpThrAlaP 4	34
	1301	CAGAAGCTGCCCTCTATGGCCGCTTCACCATCAAGTCGGACGTGTGGTCC 1	350 50
	1351 451	TTCGGGATCCTGCTGACTGAGCTCACCACAAAGGGACGGGTGCCCTACCC 1	400
	1401	TGGGATGGTGAACCGCGAGGTGCTGGACCAGGTGGAGCGGGGCTACCGGA 1	450
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CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO

or of the invention of the printed of the products of the company of the
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seq_name: /cgn2_6/ptodata/1/1aa/PCTUS_COMB.pep:PCT-US93-00445-4
                                                                                                                                                                                                          seq_documentation_block:
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                                                              APPLICANT: Madri, Joseph A.
APPLICANT: Warren, Stephen L.
APPLICANT: Luthringer, Daniel J.
TITLE OF INVENTION: Genetically
TITLE OF INVENTION: Endothelial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS
                                                   NUMBER OF SEQUENCES:
                                                                                                                                                     APPLICANT:
ADDRESSEE: Maurice M. Klee
STREET: 1951 Burr Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGCCCTGCCCGCCGGAGTGTCCCGAGTCCCTGCACGACCTCATGTGCCAG 1500
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                                                                                                                                                     Bell, Leonard
                                                                 Engineered
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Ratio: Percent Similarity:

Percent Identity: 100.000

1451

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467

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alignment_scores:
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APPLICATION NUMBER: 07/820,011
FILING DATE: 06-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Klee, Maurice M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inc
COMPUTER: DELL 486/5
                                                                                                                                                                                                                                                                                                                                                           PAGES: 1122-1129
DATE: MAY 1985
PUBLICATION INFORMATION:
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ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELECOMMUNICATION INFORMATION: TELEPHONE: (203) 255 1400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: P: HYPOTHETICAL: NO
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                                                                                                                                                                                     TITLE:
                                                                                                                                         VOLUME:
                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE:
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OPERATING SYSTEM: DOS 5.0
                                                                                                                                                                                                                       TITLE:
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TYPE: AMINO ACID
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REFERENCE/DOCKET NUMBER: ALX-101PCT
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REGISTRATION NUMBER: :
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                                                                                                                           PAGES:
                                                                                                                                                                        JOURNAL:
                                                                                                                                                                                                                                                    TITLE:
                                                                                                                                                                                                                                                                      AUTHORS:
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Quality: 2834.00
Ratio: 5.287
milarity: 100.000
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May, 1987
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                                                                                                                                                                                                                  DNA Sequence Encoding the Amino-Terminal Region of the Human Protein: Implications of Sequence
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: Fujita, Donald J.
Human Cellular src Gene:
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                                                                                                                                                                                                     Divergence among
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Gibbs, Carol P.
Arthur, Richard R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Anderson, Stephen Gibbs, Carol P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gibbs, Carol
Tanaka, Akio
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Kung, Hsing-Jien
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                                                                                                                                                                        Molecular and
                                                                                                                                                                                                                                                                     Fujita, Donald J.
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86/50
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                                                                                                                                                                        Cellular Biology
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                                Length:
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ID AAH2
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                                                                                                                                                                               Modulating vascular permeability in tissues, including tissues associated with stroke, myocardial infarction, the tissue with tyrosine kinase protein Src, Yes or the tissue with tyrosine kinase protein Src, Yes or the tissue with tyrosine kinase protein Src, Yes or the tissue with tyrosine kinase protein Src, Yes or the tissue with tyrosine kinase protein Src, Yes or the tissues.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         diabetic retinopathy; inflammatory disease; infection; arthritis; adult respiratory distress syndrome; ARDS; rheumatoid arthritis; diabetic retinopathy; psoriasis; neovascular glaucoma;
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The specification describes a method for modulating vascular permeability in a tissue suffering from a disease condition. The method

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Best Local Similarity
Matches 1374; Conserv
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RESULT 5
PCT-US93-06251-83
; Sequence 83, Application
; GENERAL INFORMATION:
; APPLICANT: Wickstrom,
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FILING DATE: 19930630

CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: DIGG19110, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8586
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 230 901 SANS UR
                                                                                                                                                                                                                          COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                   CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Wickstrom, Eric and Rife, Jason P.
TITLE OF INVENTION: Trivalent Synthesis of Oligonucleotides Containing
TITLE OF INVENTION: Stereospecific Alkylphosphonates and Arylphosphona
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                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
                                                                                                                                                                                                                                                                                         CITY:
STATE:
                                                                                                                                     APPLICATION NUMBER: PILING DATE: 19930630
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Query Match 65.7%; Best Local Similarity 100.0%; Matches 1058; Conservative

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Score 1058; DB 23; Pred. No. 1.9e-190; Mismatches 0;

Length 1090; Indels

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RESULT ANSBYJET ANSBY
                                                                     CC polypeptide (II) sequences. (I) is useful as hybridisation probes, CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome CC and gene mapping, and in recombinant production of (II). The CC polynucleotides are also used in diagnostics as expressed sequence tags CC for identifying expressed genes. (I) is useful in gene therapy techniques CC (II). (II) is useful for generating antibodies against it, detecting or CC quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating CC disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in CC diagnostics, forensics, gene mapping, identification of mutations CC responsible for genetic disorders or other traits to assess biodiversity and or produce other types of data and products dependent on DNA and CC and to produce other types of data and products dependent on DNA and CC diagnostic coding sequences of the invention.

CC Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at figure and product sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New isolated polynucleotide and encoded polypeptides, useful diagnostics, forensics, gene mapping, identification of mutaresponsible for genetic disorders or other traits and to assure the control of t
    Sequence
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23-AUG-2000; 2000US-0649167
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upplement; medical imaging; diagnostic;
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Qy 1204 gtgt 	Qy 1144 cgga         Db 1726 CGCA	Qy 1084 cggc Db 1666 AAAT	Qy 1024 gagt      Db 1606 GAGT	Qy 964 catg      Db 1546 CACG	904 cctg      Db 1486 CCAG	Qy 844 ggcg	Qy 784 gcctg              Db 1366 GTCTG	Qy 733 accac Db 1306 GTAGT	Qy 673 agcc	Oy 613 taca      Db 1186 TATA	Qy 553 ggtg          Db 1126 GGTG	2493 ctgc	Qy 433 tcca	Qy 373 cact      Db 946 CGCT	Qy 313 ttca    Db 886 TTTC	Qy 253 ggag       	Query Match Best Local S Matches 952
gcaaagtggccgactttgggctggct	tgaactacgtccaccgggaccttcgt                             TGAATTATATCCATAGAGATCTGCGA	tgcctcagctggtggacatggctgct                           TACCAAATCTTGTGGACATGGCAGCA	acatgagcaaggggagtttgctggac                     ATATGAACAAAGGAAGTTTACTGGAT	agaagctggtgcagttgtatgctgtgg                          ACAAGCTGGTCCAGCTCTATGCAGTGC	gcacgatgtctccagaggccttcct 	aggtgtggatggggacctggaacgg                              AAGTATGGATGGGTACCTGGAATGG	gggagatocotogggagtogotgcggotg                                 	ccgtgtgccccacgtccaagccgcaga	cctgcagcagctggtggcctactactc 	.agatccgcaagctggacagcggcgg                       AATȚCGCAAACTTGACAATGGTGG	cctactgcctctcagtgtctgactt 	tcaatgcagagaacccgagagggac                   	tccaggctgaggagtggtattttgg                             TCCAGGCAGAAGAGTGGTACTTTGG	.cgctcagcacaggacaggctac 	lagaaaggcgagcggctccagattgtc                           ACAAAGGAGAAAAATTTCAAATATTG		42.8%; Score imilarity 69.6%; Pred.; Conservative 0; Mi
cggctcattgaagacaatgagtacacggc:	gcagccaacatcctggtgggaggaacc                         TCAGCAAACATTCTAGTGGGGAATGGAC	.cagatcgcctcaggcatggcgtacgtgg 	tttctcaagggggagacaggcaagtacc 	tttcagaggagcccatttacatcgtca 	gcaggaggcccaggtcatgaagaagctga 	accaccagggtggccatcaaaaccctg                              ACACAAAAGTAGCCATAAAGACTCTT	gaggtcaagctgggccagggctgct               ATCAAGAGACTGGGAAATGGGCAGT	ctcagggcctggccaagg 	caaacacgccgatggcctgtgccaccgcc 	ttctacatcacctcccgcacccagttca                       	.ogacaacgccaagggcotcaacgtgaagc 	cttcctcgtgcgagaaagtgagaccacga	caagatcaccagacgggagtcagagcggt 	atccccagcaactacgtggcgccctccg                      arrcccagcaarrargrggcrccagrrg	caacaacacggagggagactggtggctgg                          SAACAGCTCGGAAGGAGATTGGTGGAAG	ctatgagtctaggacggagacagacctgt        	. 689.4; DB 5; Length 2647; No. 3.2e-131; smatches 406; Indels 9;
eg 1263	tg 1203   TC 1785	ag 1143     AG 1725	rtg 1083 	cg 1023     cc 1605	agg 963 	aag 903  } AAA 1485	tt 843    TT 1425	at 783    AT 1365	tc 732   TA 1305	ac 672    AA 1245	ac 612    AT 1185	.aa 552    .AA 1125	ta 492 AG 1065	Pac 432     AC 1005	cc 372     CC 945	.cc 312	Gaps 1

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; TOPOLOGY: lir
US-08-306-691B-40
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                                                                                          NAME: MONAGO, DANÍEL A.
REGISTRATION NUMBER: 30,480
REFERENCE_DOCKET NUMBER: 8321
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEPAX: (215) 568-5549
TELEX: NO. 5734039e
INFORMATION FOR SEQ ID NO: 40:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 40, Application US/08306691B Patent No. 5734039 GENERAL INFORMATION:
                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                    CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                     SOFTWARE: WORDERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08,
FILING DATE: September 15
                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
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                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 1804 base pair
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APPLICANT: Skorski, Tomasz
TITLE OF INVENTION: ANTISENSE
TITLE OF INVENTION: OLIGONUCI
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OPERATING SYSTEM: MS-DOS
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                                               TYPE: nucleic acid
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Two Penn Center, Suite 1800
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Best Local Similarity
Matches 1029; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               throughput method for detecting altered expression of one or more polynucleotides in a sample. The polynucleotides can be used in the diagnosis of disorders associated with foam cell development such as atherosclerosis, cerebral stroke, and cardiovascular disorders such as coronary artery disease. The polynucleotide sequences can also be used as PCR primers and probes. The polynucleotides of the invention are also useful in gene therapy. AAS94746-AAS95021 represent the human polynucleotide sequences of the invention which are differentially expressed during foam cell differentiation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to the isolation of human polynucleotide sequences that are differentially expressed during foam cell differentiation. The polynucleotide sequences of the invention or a composition comprising these polynucleotides are useful as a high
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Composition useful for diagnosis of conditions, disorders or diseases associated with atherosclerosis, comprises several polynucleotides that are differentially expressed in foam cell development -
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alignment\_block: alignment\_scores: Quality: 2408.50 Ratio: 4.946 Percent Similarity: 88.545 US-09-444-711-1 x ABG23778 gn seg 1/1 to: ABG23778 disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. ABG00010-ABG30377 represent novel human diagnostic amino acid sequences of the invention.

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO 575 182 525 166 475 149 425 132 375 625 199 225 CCCGCAGAGGGCGGGCCGGCTGGCCGGTGGACCACCTTTGTGGCCC 274 193 GGAGGCTTCAACTCCTCGGACACC......GTCACCTC 22 143 GCGGCCCCAGCGCCCTTCGCCCCCCGCGGCCGAGCCCAAGCTGTTC 192 103 .....TCGCAGACCCCCAGCAAGCCAGCCTCGGCCGACGGCCACC 142 Sequence 66 GlyGlyGlyArgValThrAspThrArgArgHisIleProAsnAlaAspVa 82 49 at ftp.wipo.int/pub/published\_pct\_sequences. 32 gArgLeuHisSerPheThrGlnThrArgSerLeuSerProGlnAlaHisA 16 ProGluArgAlaValLeuGluSerArgGlyGlyAlaProAspThrProAr 32 CCTCCGACTCCATCCAGGCTGAGGAGTGGTATTTTGGCAAGATCACCAGA 474 laGlyProHisThrArgLeuHisProArgGlnGlyHisAlaHisMetArg 65 AAGCTGGACAGCGGCGGCTTCTACATCACCTCCCGCACCCAGTTCAACAG CTGACTTCGACAACGCCAAGGGCCTCAACGTGAAGCACTACAAGATCCGC CGGGAGTCAGAGCGGTTACTGCTCAATGCAGAGAACCCGAGAGGGACCTT 524 CCCGCCGAGAACGTGCACGGCGCTGGCGGGGGGGGCGCTTTCCCCGCC.... 102 565 AA; from: 1 Percent Identity: 85.273 to: 565 674 215 624 199 574 182 49 99

1508	CCGCCGGAGTGTCCCGAGTCCCTGCACGACCTCATGTGCCAGTGCTGGCG	1459
1458 515	TGAACCGCGAGGTGCTGGACCAGGTGCAGCGGGGCTACCGGATGCCCTGC	499
99	LeuLeuThrGluLeuThrThrLysGlyArgValProTyrProGlyMet	4.8
1408	GCTGACTGAGCTCACCACAAAGGGACGGGTGCCCTACCCTGGGATG	1359
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415	laAlaGlnIleAlaSerGlyMetAlaTyrValGluArgMetAsnTyrVal	399
1158	TGCTCAGATCGCCTCAGGCATGGCGTACGTGGAGCGGATGAACTACGT	1109
399	LysGlyGluThrGlyLysTyrLeuArgLeuProGlnLeuValAspMetA	38
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808 299	GCAGACTCAGGGCCTGGCCAAGGATGCCTGGGAGATCCCTCGGGAGTCGC	759 282
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The specification describes a method for modulating vascular permeability in a tissue suffering from a disease condition. The method comprises contacting the tissue with a pharmaceutical composition comprises contacting the tissue with a pharmaceutical composition comprises contacting the tissue with a pharmaceutical composition comprising tyrosine kinase protein Src, Yes or their mixtures or nucleic acid expressing them. The method is useful for modulating yes consisted with stroke, myocardial infarction or other blockage of associated with stroke, myocardial infarction or other blockage of normal flow, tissues undergoing restenosis, psoriatic, retinal tissue and smillar tissues. Pathologies which may be treated include include trauma to blood vessels, and other systemic pathological events such as atherosclerosis, diabetic retinopathy, inflammatory disease due to infection by microbial agents and arthritis. Other diseases which can be treated include adult respiratory distress syndrome (ARDS), rheumatoid arthritis, diabetic retinopathy, psoriasis, neovascular glaucoma, capillary proliferation in atherosclerotic plaques and osteoporosis and cancer associated disorders such as solid tumours, solid tumour present sequence

rheumatoid

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                                                                                                                                                                                                                                  Modulating vascular permeability in tissues, including inflamed tissue, tissues associated with stroke, myocardial infarction, by contacting the tissue with tyrosine kinase protein Src, Yes or their modified
                                                                                                                                                                                                                                                                                        WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Vascular permeability; tyrosine kinase protein; Src; Yes; stroke; myocardial infarction; restenosis; trauma; blood vessel; atherosclerosis; diabetic retinopathy; inflammatory disease; infection; arthritis; adult respiratory distress syndrome; ARDS; rheumatoid arthritis; diabetic retinopathy; psoriasis; neovascular glaucoma;
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Amino acid 05-SEP-2001

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                                                                                                                                     alignment_scores:
                                US-09-444-711-1 x
                                                                                    Percent Similarity:
                                                                                                                                                                                                                      normal flow, tissues undergoing restenosis, psoriatic, retinal tissue and similar tissues. Pathologies which may be treated include include trauma to blood vessels, and other systemic pathological events such as atherosclerosis, diabetic retinopathy, inflammatory disease due to infection by microbial agents and arthritis. Other diseases which can be treated include adult respiratory distress syndrome (ARDS), rheumatoid arthritis, diabetic retinopathy, psoriasis, neovascular glaucoma, capillary proliferation in atherosclerotic plaques and osteoporosis and capillary proliferation in atherosclerotic plaques and osteoporosis and cancer associated disorders such as solid tumours, solid tumour metastases, anglofibromas and hemanglomas. The present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                    nucleic acid expressing them. The method is useful for modulating vascular permeability in tissues, including inflamed tissue, tissues associated with stroke, myocardial infarction or other blockage of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Vascular permeability; tyrosine kinase protein; Src; Yes; stroke; myocardial infarction; restenosis; trauma; blood vessel; atherosclerosis; diabetic retinopathy; inflammatory disease; infection; arthritis; adult respiratory distress syndrome; ARDS; rheumatoid arthritis; diabetic retinopathy; psoriasis; neovascular glaucoma;
                                                                                                                                                                                            Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Modulating vascular permeability in tissues, including inflamed tissue, tissues associated with stroke, myocardial infarction, by contacting the tissue with tyrosine kinase protein Src, Yes or their modified
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Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at fifty. Wipo.int/pub/published_pct_sequences.
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                                 98NO-0002419
98US-0114240
                                                                                                                                                                                                             AIDS; immunodeficiency; autoimmune erythematosus; Src-family; ss.
                                                                    99WO-GB01680
                                                                                                                                                                                                                                                                        Src-family protein encoding
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alignment_scores:
Quality: 2115.50
Ratio: 4.473
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Align seg 1/1 to: AAY24421
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-09-444-711-1 x AAY24421
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      neurological disorders, which enables more accurate evaluation and prescription of medical treatment. The present sequence represents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Detection of a genetic mutation in the yes1 gene, useful for diagnosis of a yes1 mediated neuropsychiatric disorder in a human
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                                                                          LysGlyThrAlaValAsnPheSerSerLeuSerMetThrProPheGlyGl 64
                                                                                                                        CGCGGCCCAGCGCGCTTCGCCCCCGCGGCCGAGCCC...... 183
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1071 AGGCAAGTACCTG 	1021 ACGGAGTACATGA        :::     348 ThrGluPheMetS	971 AGCTGGTGCAGTT         331 ysLeuValProLe	921 AGAGGCCTTCCTO	871 GGTACCACCAGGG         ::: 298 GlyThrThrLys	821 TCAAGCTGGGCC           281 alLysLeuGlyG	771 CCTGGCCAAGGA           264 yLeuAlaLysAsj	721 TGCCACCGCCTCA  {    :::     248 CysHisLysLeuT	671 ACAGCCTGCAGCA :::::       :: 231 spThrLeuGlnLy	621 CCGCAAGCTGGA            214 eArgLysLeuAs	571 GTGTCTGACTTCO :::    ::: 198 IleArgAspTrp	521 CCTTCCTCGTGCO	471 CAGACGGGAGTC:         : : : : : : : : : : : : : : :	421 GCGCCCTCCGAC	371 CCCACTCGCTCA   :::   ::::   131 laArgSerIleA	321 AGGCGAGCGGCT           114 sGlyGluArgPh	271 GCCCTCTATGAC	221 CCTCCCCGCAGAG :: ::: 81 alProSerSerTy	оч урегаетыгуч
30GGCTGCCTCAGCTGGTGGACATGGCTGCTCAG  :::	GCAAGGGGAGTTTGCTGGACTTTCTCAAGGG 	GTATGCTGTGGTTTCAGAGGAGCCCATTTACA 	GCAGGAGGCCCAGGTCATGAAGAAGCTGAGGCA                   uGlnGluAlaGlnIleMetLySLysLeuArgHi	GTGGCCATCAAAACCCTGAAGCCTGGCACGATG 	AGGGCTGCTTTGGCGAGGTGTGGATGGGGACCT 	TGCCTGGGAGATCCCTCGGGAGTCGCTGCGGCT 	ACCACCGTGTGCCCCACGTCCAAGCCGCAGACT                     hrthrValCysProThrValLysProGlnThr	AGCTGGTGGCTACTACTCCAAACACGCCGATG  - - - -	CAGCGGCGGCTTCTACATCACCTCCCGCACCCA  :::      :::    asnGlyGlyTyrTyrIleThrThrArgAlaGl	GACAACGCCAAGGGCCTCAACGTGAAGCACTAC    ::: ::	GAGAAAGTGAGACCACGAAAGGTGCCTACTGCC 	AGAGCGGTTACTGCTCAATGCAGAGAACCCGAG 	TCCATCCAGGCTGAGGAGTGGTATTTTGGCAAG 	GCACAGGACAGACAGGCTACATCCCCAGCAACT ::      :::::	CCAGATTGTCAÀCAACACGGAGGGAGACTGGTG :      :::	TATGAGTCTAGGACGGAGACAGACCTGTCCTTC       :::       TyrGluAlaArgThrThrGluAspLeuSerPhe	GGGCGGCCCGCTGGCCGGTGGAGTGACCACCT ::    :::            yrProAlaGlyLeuThrGlyGlyValThrIleP	lThrProPheGlyGlyAlaSerSerSerPheSe
GATCG 1120        nIleA 381	GAGAC 1070 Glyas 364	TCGTC 1020        eval 347	TGAGA 970  :::  sAspL 331	TCTCC 920     MetPr 314	GGAAC 870       rpAsn 297	GGAGG 820        uGluV 281	CAGGG 770             264	GCCTG 720        yLeu 247	GTTCA 670     : nPheA 231	AAGAT 620       Lysil 214	TCTCA 570        euSer 197	3AGGGA 520        gGlyI 181	ATCAC 470 ::: MetGl 164	ACGTG 420       yrVal 147	GCTGG 370     pGluA 131	AAGAA 320        LysLy 114	TTGTG 270       heVal 97	rvaiv 81

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  immunoreactivity to host self-determinants on the product of proto-oncogene. The cellular immunogens are used for protective vaccination against cancer (e.g. carcinoma of breast or colon, or various lymphomas) and for immunotherapy of cancer. Use of the immunogen eliminates the need to isolate immunogenic, HLA host-matched peptides. The method is not based on immune recognition of a determinant defined by a cancer-specific mutation and generates a systemic (anti-metastatic)
                                                                                                         1007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1804
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         is associated with cancer, comprises host cells transfected with a construct containing at least one transgene related to the proto-onco and driven by a strong promoter. The product of the transgene induces
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 69-70; 81pp;
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aagaagctgaggcatgagaagctggtgcagttgtatgctgtggtttcagaggagcccatt
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                                                                                                                                                                                                             Human; oncogene; proto-oncogene; neoplastic disease; anticancer;
cancer; antisense oligonucleotide; c-yes; ds.
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Anticancer composition comprising two anti-sense oligo:nucleotide(s)

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Best Local Similarity 68.8
Matches 742; Conservative
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Pred. No. 7.8e-93;
0; Mismatches 337;
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Search completed: June 4, 2002, 09:36:41 Job time: 4213 sec

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Result
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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/cgn2_6/ptodata/1/ina/5B_COMB.seq:*
/cgn2_6/ptodata/1/ina/6A_COMB.seq:*
/cgn2_6/ptodata/1/ina/6B_COMB.seq:*
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US-09-006-675-1
US-09-228-603A-1
US-09-173-581-12
US-09-420-915-12
US-09-006-675-7
US-09-228-603A-7
US-08-426-509A-5
                                                                                                US-08-222-616-19
PCT-US95-04228-19
US-08-306-691B-24
PCT-US93-06251-66
            US-08-306-691B-35

US-09-328-111-821

US-08-604-989A-10

US-08-604-989A-11

US-08-604-989A-11

US-08-426-509A-1
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PCT-US93-06251-77
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PCT-US93-00445-3
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US-07-820-011A-3
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Sequence 11, Appl	Sequence 17, Appl	Sequence 10, Appl	10,	10,			μ	1,		Sequence 30, Appl	1,	Sequence 2, Appli	ω	Sequence 3, Appli	Sequence 8, Appli	76,	Sequence 34, Appl

## ALIGNMENTS

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TELEFAX: (203) 254 110 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                       MOLECULE TYPE: C
HYPOTHETICAL: NC
ANTI-SENSE: NO
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION:
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APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 in
COMPUTER: IBM PC XT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: LE
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203) 255 1400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Klee, Maurice M.
REGISTRATION NUMBER: 30,399
POSITION IN GENOME:
CHROMOSOME/SEGMENT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: Displaywrite 3 CURRENT APPLICATION DATA:
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TYPE: NUCLEIC ACID
STRANDEDNESS: Double
TOPOLOGY: Linear
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                                                                                       ORGANISM:
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OPERATING SYSTEM: PC-DOS/MS-DOS 2.10
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CITY: Fairifield
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Warren, Stephen
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Chromosome
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RESULT 2
PCT-US93-00445-3
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TELEFAX: (203) 254 1101
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1611
TYPE: NTOTAL
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COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 760 Kb storage
COMPUTER: DELL 486/50
OPERATING SYSTEM: DOS 5.0
SOFTWARE: Displaywrite 3
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/00445
FILING DATE: 19930105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 06-JAN-1992
ATTORNEX/AGENT INFORMATION:
NAME: Klee, Maurice M.
REGISTRATION UNUBER: 30,399
REFERENCE/DOCKET NUMBER: ALX-
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE: CD
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APPLICANT: Luthringer, Daniel J.
Genetically Engineered
Three OF INVENTION: Genetically Engineered
                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Homo sapien
POSITION IN GENOME:
CHROMOSOME/SEGMENT: Chromosome
PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  HYPOTHETICAL: I
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                                                     DATE: May, 1985
PUBLICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                             ORIGINAL SOURCE:
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APPLICATION NUMBER:
                                                                                                                                                                                                                                           AUTHORS:
TITLE: H
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: Fujita, Donald J.
Human Cellular src Gene:
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Tanaka, Akio
Gibbs, Carol P.
Arthur, Richard R.
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Warren, Stephen L.
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DATE: May, 1987
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS:
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Kung, Hsing-Jien
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RESULT 4
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                                                                                                                                                                                                                                                                                FILING DATE: 06-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Klee, Maurice M.
REGISTRATION NUMBER: 30,399
REFERENCE/DOCKET NUMBER: ALX-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203) 255 1400
TELEFAX: (203) 254 1101
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1002 base pairs
TYPE: NUCLEIC ACID
CTE ANDERWES: DAILS
CTE ANDERWES: DAILS
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GENERAL INFORMATION:
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APPLICANT: Madri, Joseph A.
APPLICANT: Warren, Stephen L.
APPLICANT: Luthringer, Daniel J.
TITLE OF INVENTION: Genetically Er
TITLE OF INVENTION: Endothelial Co
                                                                                                                                        ORGANISM: Gallus, gallus PUBLICATION INFORMATION: AUTHORS: Takeya, Tatsuo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inc
COMPUTER: DELL 486/5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Displaywrite 3
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1492
                                                                                                                                                                                          ORIGINAL SOURCE:
                                                                                                                                                                                                         HYPOTHETICAL: NO ANTI-SENSE: NO
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                                                                                                                                                                                                                                   MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
JOURNAL: Cell
VOLUME: 32
PAGES: 881-890
DATE: March, 19
                                                    AUTHORS: Takeya, Tatsuo
AUTHORS: Hanafusa, Hidesaburo
TITLE: Structure and Sequence of the
TITLE: Cellular Gene Homologous to th
TITLE: Gene and the Mechanism for Ger
TITLE: Transforming Virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: DELL 486/50
OPERATING SYSTEM: DOS 5.0
                                                                                                                                                                                                                                                          TOPOLOGY: Lin
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March, 1983
                          Application PC/TUS9300445
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1951 Burr Street
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Best Local S
Matches 955
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SEQUENCE CHARACTERISTICS:
LENGTH: 4517 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
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TTCCACAGCTGGTTGATATGGCTGCTCAGATTGCTGATGGTATGGCATATATTGAAAGAA
                    tgcctcagctggtggacatggctgctcagatcgcctcaggcatggcgtacgtggagcgga
                                                                      acatgagcaagggagtttgctggactttctcaagggggagacaggcaagtacctgcggc
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                                                      ATAAACTTGTTCCACTATATGCTGTTGTTTCTGAAGAACCAATTTACATTGTCACTGAAT
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955; Conservative
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Pred. No. 2.2e-135;
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                                                                                TELEX: 230 901 SANS U
                                                                                                           TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFFWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                        ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Wickstrom, Eric and Rife, Jason P.
TITLE OF INVENTION: Trivalent Synthesis of Oligonucleotides Containing
TITLE OF INVENTION: Stereospecific Alkylphosphonates and Arylphosphonates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1796
                                                    SEQUENCE CHARACTERISTICS:
LENGTH: 2647 base pair
                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
NAME: D1G19110, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8586
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  MOLECULE TYPE:
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                                                                                                                                                                                                             APPLICATION NUMBER: FILING DATE: 19930: CLASSIFICATION:
              STRANDEDNESS:
TOPOLOGY: 11
                                                                                                                                                                                                                                                                                                                                                                                 STREET: 400 G
                                          TYPE:
                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
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                            ATGAATCTGTGTTGGAAGGACGCCTGATGAAAGACCAACATTTGAATATGTTCAGTCC
                                          atgtgccagtgctggcggaaggagcctgaggagcggcccaccttcgagtacctgcaggcc 1551
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RESULT 8
PCT-US93-06251-82
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; GENERAL INFORMATION:
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; TOPOLOGY: linear
; MOLECULE TYPE: DNA (ger
PCT-US93-06251-82
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TELEPHONE: 516-742-4343
TELEPAX: 516-742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 82:
SEQUENCE CHARACTERISTICS:
LENGTH: 1804 base pairs
TYPE: nucleic acid
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Best Local S
Matches 742
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NAME: D1G1glio, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 859
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TITLE OF INVENTION: Trivalent Synthesis of Oligonucleotides Containing
TITLE OF INVENTION: Stereospecific Alkylphosphonates and Arylphosphona
NUMBER OF SEQUENCES: 93
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CLASSIFICATION:
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STREET: 40
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                ctggccaaggatgcctgggagatccctcgggagtcgctgcggctggaggtcaagctgggc
                                                                                                                        ACAACCAGAGAACATGATACTCTGCAGAAATTGGCAAAACACTACACAGAACATGCT
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Pred. No. 5.7
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5.7e-101;
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           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                           APPLICANT: Hemmati-Brivanlou, Ali
APPLICANT: Weinstein, Daniel C.
TITLE OF INVENTION: A NOVEL SRC-FAMILY KINASE AND METHODS
TITLE OF INVENTION: USE THEREOF
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
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CITY: Hackensack
 APPLICATION NUMBER:
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Best Local Similarity
Matches 822; Conserv
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TELEX: 133521
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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REFECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEPAX: 201-343-160'
TELEY.: 201-343-160'
TELEY.: 201-343-160'
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ggccttcctgcaggaggcccaggtcatgaagaagctgaggcatgagaagctggtgcagtt 983
                                            ctggaacggtaccaccagggtggccatcaaaaccctgaagcctggcacgatgtctccaga
                                                                                                          gtcgctgcggctggaggtcaagctgggccagggctgctttggcgaggtgtggatggggac
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                              GTACAATGGACACACAAAAGTAGCTGTAAAAACAATGAAGCCAGGCAGCATGTCCCCCGG
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Pred. No. 5:2e-86;
0; Mismatches 492;
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RESULT 13
US-09-006-675-7
; Sequence 7, Application US/09006675
; Patent No. 5952213
; GENERAL INFORMATION:
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CURRENT FILING DATE: 1999-10-20
EARLIER APPLICATION UNMBER: US 09/173,581
EARLIER FILING DATE: 1998-10-15
NUMBER OF SEO ID NOS: 18
SOFTWARE: PERL Program
SEO ID NO 12
LENGTH: 1574
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Ches 465; Conserv
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OTHER INFORMATION: 507669
-09-420-915-12
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ORGANISM: Homo sapiens
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Pred. No. 8.5e-62;
0; Mismatches 198;
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; FEATURE:
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Best Local Similarity 65.8%;
Matches 513; Conservative
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1144 cggatgaactacgtccaccgggaccttcgtgcagccaacatcctggtgggagagaacctg
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MEDIUM TYPE: Floppy disk
                                                                                                                                                  1024
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LENGTH: 780 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION: TELEPHONE: 201-487-5800
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOSTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
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TITLE OF INVENTION: A NOVEL SRC-FAMILY KINASE
TITLE OF INVENTION: USE THEREOF
NUMBER OF SEQUENCES: 12
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RECOMMUNICATION INFORMATION TREASURED TELEPHONIA
                                                                                                                                                                                                                                                                                                                61
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STREET: 411 Hacke
CITY: Hackensack
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                                                                     cggctgcctcagctggtggacatggctgctcagatcgcctcaggcatggcgtacgtggag 1143
                                                                                                                                   GATGTTTGGTTGGCCATGTACAATGGACACACAAAAGTAGCTGTAAAAACAATGAAGCCA
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                                                CCTCTGATTCAACTCATTGACTTCTCTGCCCAGATTGCAGAAGGAATGTGGTTTATTGAG
                                                                                                               GAGTATATGCAAAAAGGGCAGTTTGCTGGATTTCCTGAAAAGTGAAGAAGGTAGCGACCAA 300
                                                                                                                                                                               gagaagctggtgcagttgtatgc---tgtggtttcagaggagcccatttacatcgtcacg 102:
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Pred. No. 6.4e-61;
0; Mismatches 264;
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US-08-426-509A-5
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Best Local Similarity 54.1%;
Matches 730; Conservative
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OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/426,509A
FILING DATE: 21-APR-1995
CLASSIFICATION: 43
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/232,545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEX: 66141 PENNIE NFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: COTUZZI, LAURA A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-0074-999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 2770 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-790-9090
TELEFAX: 212-869-9741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: USA
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
968 TGTCAAGCTGGGGAAACCATGCTTAAAGATCCAGGTCCCAGCTCCATTTGATTTGTCGTA 1027
                                                                                              908
                                                                                                                                                                               848
                                                                                                                                                                                                                          603
                                                                                                                                                                                                                                                           803 AAGCCAAAAAGGAGAATTCTCTCTTTCAGTTTTAG------ATGGAGCAGT 847
                                                                                                                                                                                                                                                                                                                                                          743
                                                                                                                                                                                                                                                                                                                                                                                                  483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          623 GAAAAGACGAGATGGCTCCAGTCAGCAACTACAAGGCTATATTCCTTCTAACTACGTGGC 682
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             563 TGACAAACTTCAAGTTCTGGACACTTTGCATGAGGGCTGGTGGTTTGCCAGACACTTGGA 622
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          324 cgagcggctccagattgtcaacaacacggagggagactggtggctgggcccactcgctcag 383
                                                                                                                                                                                                                                                                                    543 gaccacgaaaggtgcctactgcctctcagtgtctgacttcgacaacgccaagggcctcaa 602
                                                                                                                                                                                                                                                                                                                                                                                                                                    683 TGAGGACAGAAGCCTACAGGCAGAGCCGTGGTTCTTTGGAGCAATCGGAAGATCAGATGC 742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 423 gccctccgactccatccaggctgaggagtggtattttggcaagatcaccagacgggagtc 482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             264 ctttgtggccctctatgactatgagtctaggacggagacaggacctgtccttcaagaaagg 323
                                      ccaccgcctcaccacgtgtgccccacgtccaagccgcagactc-----aggg 770
                                                                                                                         ccagttcaacagcctgcagcagctggtggcctactactccaaacacgccgatggcctgtg 722
                                                                                                                                                                      TGTAAAACACTACAGAATTAAAAGACTGGATGAAGGGGGGATTTTTTCTCACGCGAAGAAG
                                                                                                                                                                                                   AGAGAAACAACTATTATATTCAGAAAACAAGACCGGTTCCTTTCTAATCAGAGAAAGTGA
                                                                                                                                                                                                                                                                                                                                                                          agagcggttactgctcaatgcagagagacccgagagggaccttcctcgtgcgagaaagtga 542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTTTGTGGCTTTGTTTGATTACCAGGCTCGGACTGCTGAGGACTTGAGCTTCCGAGCAGG 562
                                                                                     AATCTTTTCAACACTGAACGAATTTGTGAGCCACTACACCAAGACAAGTGACGGCCTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            unknown
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	8 GAC	Db 180	
	39 gtacctgcaggccttcctggaggactactt 1568	Qу 153	
1807	48 ATTTTACAACATCATGTTGGAGTGCTGGAATGCAGAGCCTAAGGAACGAAC	Db 1748	
1538	9	Qy 147	
1747	8 GGTAATCCAGATGTTGGCTCAAAACTATAGACTTCCGCAACCAAC	Db 168	
1478	9 ggtgctggaccaggtggagcggggctaccggatgccctgcccgccggagtgtcccgagtc	Qy 141	
1687		Db 162	
1418	59 cctgctgactgagctcaccacaaagggacgggtgccctaccctgggatggtgaaccgcga	Qy 135	
1627	68 GCCCGAAGCCATTCGTAGTAATAAATTCAGCATTAAGTCCGATGTATGGTCATTTGGAAT	Db 156	
1358		Qy 129	
1567		Db 150	
1298	tgagtacacggcgcggcaaggtgccaaattccccatcaagtggacggc	Qy 124	
1507	8 CGTTGGTGAACATAATATCTACAAAGTAGCAGATTTTGGACTTGCCAGAGTTTTTAAGGT	Db 144	
1247		Qy 118	
1447	8 AATGGCCTATCTGGAAGTCTCGGAACTACATTCACAGAGATCTGGCTGCCAGAAATGTCCT	Db 138	
1187		Qy 113	
1387	28 CACTGGATCAAAAATCCATCTGACTCAACAGGTAGACATGGCGGCACAGGTTGCCTCTGG	Db 137	
1127	gacaggcaagtacctgcggctgcctcagctggtggacatggctgctcagatcgcctcagg	Qy 1068	
1327	68 AATTTATATTATTACAGAGTTGATGAGACATGGAAGTCTGCAAGAATATCTCCCAAAATGA	Db 126	
1067	catttacatcgtcacggagtacatgagcaaggggagtttgctggactttctcaaggggga	Оу 1008	
1267	.208 GAAGAACCTAAGACATCCAAAGCTTATCCAGCTTTATGCTGTTTGCACTTTAGAAGATCC	Db 120	
1007	<pre>gctgaggcatgagaagctggtgcagttgtatgctgtggtttcagaggagcc</pre>	Оу 9:	
1207	48 GAAAACATTAAAACCAGGTTCAATGGATCCAAATGACTTCCTGAGGGAGG	Db 1148	
950		Qу 89	
1147	8 ATCTGGTCAGTTTGGCGAAGTATGGGAAGGTCTGTGGAACAATACCACTCCAGTAGCAGT	Db 108	
068	31 ccagggctgctttggcgaggtgtggatgggacctggaacggtaccaccagggtggccat	Οу 8:	
1087	TAAAACCGTGGACCAATGGGAGATAGACCGCAACTCCATACAGCTTCTGAAGCGATTGGG	Db 1028	
830		Оу 7	

Search completed: June Job time: 3967 sec 4, 2002, 09:32:35

802

907

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***Cyproducta//ina/6B_COMB.pep:US-08-426-509A-11 + 1932.50 2312.37 4.7e-122 537 ***Cyproducta//ina/6B_COMB.pep:US-08-426-509A-15 + 1856.00 2220.53 6.2e-117 529 ***Cyproducta//ina/6B_COMB.pep:US-08-426-509A-15 + 1856.00 2220.53 6.2e-117 529 ***Cyproducta//ina/6B_COMB.pep:US-08-426-509A-17 + 1529.00 1827.81 4.9e-95 505 ***Cyproducta//ina/6B_COMB.pep:US-09-039-5558-17 + 1464.00 1749.58 1.1e-90 509 ***Cyproducta//ina/6B_COMB.pep:US-08-426-509A-18 + 1464.00 1749.58 1.1e-90 509 ***Cyproducta//ina/6B_COMB.pep:US-08-426-509A-18 + 1464.00 1749.58 1.1e-90 509 ***Cyproducta//ina/6B_COMB.pep:US-08-426-509A-16 + 1464.00 1749.58 1.1e-90 509 ***Cyproducta//ina/6B_COMB.pep:US-08-426-509A-16 + 1464.00 1749.52 1.1e-90 509 ***Cyproducta//ina/6B_COMB.pep:US-09-06-675-2 + 1441.00 1722.18 3.8e-89 496 ***Cyproducta//ina/6B_COMB.pep:US-09-06-675-2 + 1441.00 1722.18 3.8e-89 496 ***Cyproducta//ina/5B_COMB.pep:US-09-08-665-2 + 1441.00 1722.18 3.8e-89 496 ***Cyproducta//ina/5B_COMB.pep:US-09-286-603A-2 + 1439.50 1720.32 4.8e-89 496 ***Cyproducta//ina/5B_COMB.pep:US-09-286-603A-2 + 1439.50 1720.32 4.8e-89 496 ***Cyproducta//ina/5B_COMB.pep:US-09-387-303-21 + 1252.50 1502.53 1.3e-76 244 ***Cyproducta//ina/5B_COMB.pep:US-09-387-303-21 + 1252.50 1502.53 1.3e-76 244 ***Cyproducta//ina/6B_COMB.pep:US-09-035-706-4 + 1228.00 1494.13 3.7e-76 246 ***Cyproducta//ina/6B_COMB.pep:US-09-035-706-4 + 1228.00 1472.60 5.9e-75 256 ***Cyproducta//ina/6B_COMB.pep:US-09-035-706-4 + 1228.00 1472.60 5.9e-75 256 ****Cyproducta//ina/6B_COMB.pep:US-09-035-706-4 + 1228.00 1472.60 5.9e-75 256 ****Cyproduc
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Database sequences: 231628
Database length: 24425594
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Search time (sec): 33.960000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Search information block:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Date: Jun 4, 2002 10:37 AM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OM Of: US-09-444-711-1 to: Issued_Patents_AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Command line parameters:
cgn2_6/ptodata/1/1aa/5A_COMB.pep:US-08-222-616-20 + 12
cgn2_6/ptodata/1/1aa/PCTUS_COMB.pep:PCT-US95-04228-20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MODEL-frame+_n2p.model -DEV-x1h
-MODEL-frame+_n2p.model -DEV-x1h
-p-/cgn2_1/USPTO_Spool/US09444711/runat_04062002_082655_24981/app_query.fasta_1.1693
-DB-Issued_Patents_AA -QFMT-fastan -SUFFIX=n2p.rai
-GAPOP-12.000 -GAPEXT=4.000 -MINMATCH=0.100 -LOOPCL=0.000
-COOPEXT=0.000 -GGAPOP-4.500 -QGAPEXT=0.050 -XGAPOP=10.000
-YGAPEXT=0.500 -FGAPOP-4.000 -FGAPOXT-0.000 -YGAPOP=10.000
-YGAPEXT=0.500 -DELOP-6.000 -DELEXT=7.000 -START=1
-YGAPEXT=0.500 -DELOP-6.000 -DELEXT=7.000 -START=1
-YGAPEXT=0.500 -FGAPO-MINMATRIX-blosum62 -TRANS-human40.cdi -LIST=45 -DCCALIGN=200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Results were produced by the GenCore software, version 4.5 Copyright (c) 1993-2000 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1611
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -NO_XLPXY -WAIT -THREADS-1
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                                                                                                                                                                                                                                                                                                                                   4.8e-89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .7e-122
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23 532
23 532
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seq_documentation_block:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /cgn2_6/ptodata/1/1aa/5B_COMB.pep:US-07-857-224B-53 +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 4
Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: (203) 254 1101
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                             PUBLICATION INFORMATION:
AUTHORS: Anderson, Stephen
AUTHORS: Gibbs, Carol P.
AUTHORS: Tanaka, Akio
AUTHORS: Kung, Hsing-Jien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Displaywrite 3
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/OI
FILING DATE: 19920106
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: LB TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
NAME: Klee, Maurice M.
REGISTRATION NUMBER: 30,399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Genetically Engineered
TITLE OF INVENTION: Endothelial Cells Exhibiting Enhancement of Invention Migration
TITLE OF INVENTION: and Plasminogen Activator Activity
                                                                                                                                                                                                                                                                                                                   FRAGMENT TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                        IY POTHET ICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC XT
OPERATING SYSTEM: P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4, Application US/07820011A
). 5336615
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                                                                                                                                                                                                                                                                                                                                                                                                           H: 536 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fairifield
                                                                                       pp60c-src
                                                                                                      Nucleotide Sequence and Derived Amino Acid Sequence of the Region Coding for the Carboxy-Terminal Two-Thirds of
                                                                                                                                                                Fujita, Donald J.
Human Cellular src Gene:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Connecticut
               1122-1129
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                                                                   Molecular and Cellular Biology
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Madri, Joseph A.
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1985
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: Complete Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US/07/820,011A
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INFORMATION:

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alignment_block:
US-09-444-711-1 x US-08-426-509A-13
                                                                                                                                                                  alignment_scores:
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                                                                                                                Quality: 2834.00
Ratio: 5.287
Percent Similarity: 100.000
                                Align seg 1/1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Seguence 13,
                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 536 amino acids
TYPE: amino acid
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APPLICANT: Gishizs
APPLICANT: Sures,,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
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TITLE OF INVENTION: NOVEL M
TITLE OF INVENTION: TYROSIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/0 FILING DATE: 21-APR-1995 CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 2.0
TOPOLOGY:
                                                                                                                                                                                                                                                                    STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                   TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: 7683-0074-999
                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Coruzzi, Laura A REGISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: New York,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
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                                to: US-08-426-509A-13
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1155 Avenue of the Americas
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       AGAACCTC 1608
                                                                           oGlyMetValAsnArgGluValLeuAspGlnValGluArgGlyTyrArgM
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seq\_documentation\_block:

Sequence 13, Application PC/TUS9505008
GENERAL INFORMATION:
APPLICANT: Sugen, Inc.
APPLICANT: 515 Galveston Drive
APPLICANT: Redwood City, Californi

Sugen, Inc. 515 Galveston Drive Redwood City, California 94063-4720

seq\_name: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep:PCT-US95-05008-13

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seg_documentation_block:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            seq_name: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:US-07-820-011A-2
                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: Bell,
APPLICANT: Madri,
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APPLICANT: Warren, Stephen L.
APPLICANT: Luthringer, Daniel J.
TITLE OF INVENTION: Genetically Engineered
TITLE OF INVENTION: Endothelial Cells Exhibiting Enhanc
TITLE OF INVENTION: Migration
TITLE OF INVENTION: and Plasminogen Activator Activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Juence 2,
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SOFTWARE: Displaywrite 3
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07
FILING DATE: 19920106
                                                                     COMPUTER READABLE FORM:

MEDIUM TYPE: 5.25 inch, 360 Kb storage
COMPUTER: IBM PC XT

OPERATING SYSTEM: PC-DOS/MS-DOS 2.10
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                                                                                                                                                                                                                   CITY: Fairifield
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5336615
                                                                                                                                                                                               Connecticut
                                                                                                                                                                                                                                   1951 Burr Street
                                                                                                                                                                           USA
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                                                                                                                                                                                                                                                       Maurice M. Klee
                                                                                                                                                                                                                                                                                                                                             Genetically Engineered Endothelial Cells Exhibiting Enhanced
                   US/07/820,011A
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alignment_block:
US-09-444-711-1 x US-07-820-011A-2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: (203) 254 1101
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FRAGMENT TYPE: C
ORIGINAL SOURCE:
ORGANISM: Gall
                                                                                                                                                                                                            ORGANISM: Gallus, gallus PUBLICATION INFORMATION:
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                              301 ACAGACCTGTCCTTCAAGAAAGGCGAGCGGCTCCAGATTGTCAACAACAC
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                                                                                                                                                                                                                                                                                                                                                                                      17 rLeuGluProProAspSerThrHis......HisGlyGlyPheProA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    AUTHORS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE: Structure and Sequence of the TITLE: Cellular Gene Homologous to the RSV src TITLE: Gene and the Mechanism for Generating the TITLE: Transforming Virus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PAGES: 881-890
DATE: March, 1983
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEPHONE:
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rGluGlyAspTrpTrpLeuAlaHisSerLeuThrThrGlyGlnThrGlyT
                                                                                                                             GTGGAGTGACCACCTTTGTGGCCCTCTATGACTATGAGTCTAGGACGGAG
                                                                                                                                                                                                                                                                                                                           laSerGlnThrProAsnLysThrAlaAlaProAspThrHlsArgThrPro
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                                                                                                                                                                                             eAsnThrSerAspThrValThrSerProGlnArgAlaGlyAlaLeuAlaG
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AMINO ACID
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; JOURNAL: Cell
; VOLUME: 32
; PAGES: 881-890
; DATE: MATCH, 1983
PCT-US93-00445-2
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US-09-444-711-1 x PCT-US93-00445-2
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Quality: 2660.50
Ratio: 5.107
Percent Similarity: 97.201
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                                                                                                                      451
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                         551
                                                 164
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AUTHORS: Takeya, Tatsuo
AUTHORS: Hanafusa, Hidesaburo
TITLE: Structure and Sequence of the
TITLE: Cellular Gene Homologous to the RSV src
TITLE: Gene and the Mechanism for Generating the
TITLE: Transforming Virus
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TGCAGAGAACCCGAGAGGGACCTTCCTCGTGCGAGAAAGTGAGACCACGA
                                                                                                        TGGTATTTTGGCAAGATCACCAGACGGGAGTCAGAGCGGTTACTGCTCAA 500
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                                                                                              TrpTyrPheGlyLysIleThrArgArgGluSerGluArgLeuLeuLeuAs
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Gaps: 1
Percent Identity: 93.843
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	601	AACGTGAAGCACTAChAGATCCGCAAGCTGGACAGCGGCGGCTTCTACAT	650
	198		214
	651	CACCTCCCGCACCCAGTTCAACAGCCTGCAGCAGCTGGTGGCCTACTACT	700
	214		231
	701 231	CGATGGCCTGTGCCACCGCCTCACCACCGCGTGTGCCCCACG	750 247
	751 248	TCCAAGCCGCAGACTCAGGGCCTGGCCAAGGATGCCTTGGGAGATCCCTCG 	800
	801 264	CTTTGGCGAGG           sPheGlyGluV	850 281
	851	TGTGGATGGGGACCTGGAACGGTACCAGCGAGGGTGGCCATCAAAACCCTG	900
	281		297
	901	AAGCCTGGCACGATGTCTCCAGAGGCCTTCCTGCAGGAGGCCCCAGGTCAT	950
	298		314
	951	GAAGAAGCTGAGGCATGAGAAAGCTGGTGCAGTTGTATGCTGTGGTTTCAG	1000
	314		331 .
ь	001	AGGAGCCCATTTACATCGTCACGGAGTACATGAGCAAGGGGAGTTTGCTG	1050
	331		347
Д	051	AGTACCTGCGGCTGCCTCAGCTGGT	1100
	348		364
	101	GGACATGGCTGCTCAGATCGCCTCAGGCATGGCGTACGTGGAGCGGATGA	1150
<b>–</b>	364		381
н	151	ACTACGTCCACCGGGACCTTCGTGCAGCCAACATCCTGGTGGGAGAGAAC	1200
	381		397
Ь	201 398	CTGGTGTGCAAAGTGGCCGACTTTGGGCTGGCTCGGCTC	1250 414
Д	251	TGAGTACACGGCGGGCAAGGTGCCAAATTCCCCATCAAGTGGACGGCTC	1300
	414		431
سر	301	CAGAAGCTGCCCTCTATGGCCGCTTCACCATCAAGTCGGACGTGTGGTCC	1350
	431		447
ш	351	TTGGGGATCCTGCTGACTGAGCTCACCACAAAGGGACGGGTGCCCTACCC	1400
	448		464
1	401	TGGGATGGTGAACCGCGAGGTGCTGGACCAGGTGGAGCGGGGCTACCGGA ]	1450
	464		481
<b></b>	451 481	TGCCCTGCCGCCGGAGTGTCCCGAGTCCCTGCACGACCTCATGTGCCCAG :	1500 497

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seq_documentation_block:
                                                                                                                                                                                                                                                                                 seq_name: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:PCT-US95-05008-14
                                                                                                                                                                                                   Sequence 14, Application PC/TUS9505008 GENERAL INFORMATION:
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TITLE OF INVENTION:
TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                       hrAlaThrGluProGlnTyrGlnProGlyGluAsnLeu
                                                                                                                                                                                                                                                                                                                                                                                                  alLeuGluGlnValGluArgGlyTyrArgMetProCysProGlnGlyCys 497
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Sugen, Inc.
Drive
Redwood City, California 94063-4720
United States of America
Wissenschaften E.V.
Hofgarten Str. 2
                                                                    Munchen 80539
            Kinases
                          Novel Megakaryocytic Protein Tyrosine
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alignment_block: US-09-444-711-1 x PCT-US95-05008-14
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Quality:
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TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER: 70
TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                             184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: ui
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
271 GCCCTCTATGACTATGAGTCTAGGACGGAGACAGACCTGTCCTTCAAGAA 320
                                                                          221 CCTCCCCGCAGAGGGCGGGCCCGCTGGCCGGTGGAGTGACCACCTTTGTG 270
                                                                                                                                                                                                                                            142 CGCGGCCCAGCGCGGCCTTCGCCCCCGCGGCCGAGCCC..... 183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                      48
                                                                                                                                                                                                                                                                                       34
                                                                                                                                                                                                                                                                                                                               92
                                                                                                                   64 ySerSerGlyValThrProPheGlyGlyAlaSerSerSerPheSerValV
                                                                                                                                                                                                                                                                                                                                                                     17 gProGluAsnThrProGluProValSerThrSerValSerHisTyrGlyA 34
                                                                                                                                                                                                                                                                                                                                                                                                          48 CAGCCTGGAGCCCCGCGAGAACGTGCACGGCGCTGGCGGG......GGCG 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 ATGGGTAGCAACAAGAGCAAGCCC...AAGGATGCCAGCCAGCGGCGCCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MetGlyCysIleLysSerLysGluAsnLysSerProAlaIleLysTyrAr 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US 0 FILING DATE: 22-APR-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: Patentin Release #1.0, Version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: New York
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                                    alProSerSerTyrProAlaGlyLeuThrGlyGlyValThrIlePheVal
                                                                                                                                                                                                      LysGlyThrAlaValAsnPheSerSerLeuSerMetThrProPheGlyGl 64
                                                                                                                                                                                                                                                                                     laGluProThrThrValSerProCysProSerSerSerAla..... 47
                                                                                                                                                                                                                                                                                                                             CTTTCCCCGCCTCGCAGACCCCCAGCCAGCCAGCCTCGGCCGACGGCCAC 141
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24-APR-1995
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alignment_scores:
Quality: 1949.00
Ratio: 4.350
Percent Similarity: 84.848
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; MOLECULE TYPE:
US-08-426-509A-12
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                            481
                                                                                                                                                                                                                                                                                      381 CAGCACAGGACAGACAGGCTACATCCCCAGCAACTACGTGGCGCCCCTCCG 430
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681 GCAGCTGGTGGCCTACTACTCCAAACACGCCGATGGCCTGTGCCACCGCC 730
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    93 TTTCCCCGCCTCGCAGACCCCCAGCAAGCCAGCCTCGGCCGACGGC.... 138
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 536 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
                                                                                                                                                                                                                                                          TCAGAGCGGTTACTGCTCAATGCAGAGAACCCGAGAGGGACCTTCCTCGT 530
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PE: No. 6326469e
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Percent Identity: 71.023
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92 97 97	GGAGGCCTTCCTGCAGGAGGCCCAGGTCATGAAGAAGCTGAGGCATGAGAA 9	1 4 6 4 7
34	CGGAGTACATGAGCAAGGGGAGTTTGCTGGACTTTCTCAAGGGGGAGACA 1	
1122 374 1172	CTCAGGCATGGCGTACGTGGAGCGGATGAACTACGTCCACCGGGACCTTC 11	.71
1222 408 1272 424	TTTGGGCTGGCTCGGCTCATTGAAGACAATGAGTACACC	71 94 121
1322 441 1372	GCTTCACCATCAAGTCGGACGTGTGGTCCTTCGGGATCCTGCTGACTGA	71 71 77 77 77 77 77 77 77 77 77 77 77 7
1422 474 1472	GCTGGACCAGGTGG	71
1522 508 1572	GAGCGGCCCACCTTCGAGTACCTGCAGGCCTTCCTGGAGG	71 4

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seq_documentation_block:
                                                                                                                                                                                                                                                                                                                                                                                            seq_name: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:US-08-594-447-1
                                                                                                                                                                                                                                                                                                                              Sequence 1,
Patent No. !
                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                      1572 GTCCACCGAGCCCCAGTACCAGCCCGGGGAGAAC 1605
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                             524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1522 GAGCGGCCCACCTTCGAGTACCTGCAGGCCTTCCTGGAGGACTACTTCAC 1571
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APPLICANT: Napolitano, Eug
APPLICANT: Voronova, Anna
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                                                                                                                                                                                                              TITLE OF INVENTION: METHODS FOR IDENTIFYING AGENTS WHICH TITLE OF INVENTION: BLOCKTHE INTERACTION OF FYN WITH PKC-THETA, AND USES TITLE OF INVENTION: THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            491
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                                                                                                                                                                                CORRESPONDENCE ADDRESS:
                                                                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     391
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                                                                                     ZIP: 20006-1888
                                                                                                  COUNTRY:
                                                                                                                                CITY: Washington
                                                                                                                                                    STREET:
                                                                                                                                                                ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GluArgProThrPheGluTyrLeuGlnSerPheLeuGluAspTyrPheTh 524
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                                                                                                                                                                                                                                                                                                                              , Application US/08594447 5776716
                                                                                                                                             2000 Pennsylvania Avenue, NW - Ste. 5500
                                                                                                       USA
                                                                                                                                                                                                                                                                            Napolitano, Eugene W.
                                                                                                                                                                 MORRISON & FOERSTER
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; TOPOLOGY: 11; MOLECULE TYPE: US-08-594-447-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (202) 822-0168
TELEX: 90-4030 MRSNFOERSWSH
INFORMATION FOR SEQ ID NO: 1:
                              359 ACTGGTGGCCCACCTCGCTCAGCACAGGACAGACAGGCTACATCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                130
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LENGTH: 532 amino acids
                                                                     409 AGCAACTACGTGGCGCCCTCCGACTCCATCCAGGCTGAGGAGTGGTATTT 458
                                                                                                                                                                                                                                                                               212 AC...ACCGTCACCTCCCCGCAGAGGGCGGGCCCGCTGGCCGGTGGAGTG
                                                                                                                                                                                                                                                                                                                                                                                                                       162 CGCCCCGCGGCCGCCGAGCCCAAGCTGTTCGGAGGCTTCAACTCCTCGG
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459 TGGCAAGATCACCAGACGGGAGTCAGAGCGGTTACTGCTCAATGCAGAGA 508
                                                                                                                                                                                                         100 uSerPheHisLysGlyGluLysPheGlnIleLeuAsnSerSerGluGlyA
                                                                                                                                                                                                                                            85 ThrLeuPheValAlaLeuTyrAspTyr...AlaArgThrGluAspAspLe
                                                                                                                                                                                                                                                                                                                                                                                      63
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CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REGISTRATION NUMBER: 29, REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Murashige, Kate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER:
                                                                                                    spTrpTrpGluAlaArgSerLeuThrThrGlyGluThrGlyTyrIlePro
                                                                                                                                                                                                                                                                                                                                                                                                                                                        AsnTyrAsnAsnPheHisAlaAlaGlyGlyGlnGlyLeuThr..... 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rGluGluArgAspGlySerLeuAsnGlnSerSerGlyTyrArgTyrGlyT
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alignment_block:
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                                          AlaAspGlyLeuCysPheAsnLeuThrValIleAlaSerSerCysThrPr
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                                                             GCCCTCTATGGCCGCTTCACCATCAAGTCGGACGTGTGGGTCCTTCGGGAT
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seq\_documentation\_block:

Sequence 11, Applicat Patent No. 6326469
GENERAL INFORMATION:

1, Application 6326469

US/08426509A

APPLICANT:
APPLICANT:
APPLICANT:

Ullrich, Axel Gishizsky, Mil Sures, Irman (

Mikhail

Irman G.

AACTACGTCCACCGGGACCTTCGTGCAGCCAACATCCTGGTGGGAGAGAA 1199

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seq_documentation_block:
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                                    CURRENT APPLICATION DATA:
APPLICATION NUMBER: PC:
FILING DATE: 24-APR-19:
                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION:
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PRIOR APPLICATION DATA:
                                                                                                                                                                                                                      CITY: New York
STATE: New York
                                                                                                          COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                      COUNTRY: UZIP: 10036
                                                                                       SOFTWARE: PatentIn Release #1.0, Version
                                                                                                                                                                                                                                                                             ADDRESSEE:
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1155 Avenue of the Americas
                                                                                                                                                                                                   U.S.A.
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Hofgarten Str. 2
Munchen 80539
                                                                                                                                                                                                                                                                                                                                                                                                                                         Sugen, Inc.
515 Galveston Drive
Redwood City, California 94063-4720
United States of America
                                                                                                                                                                                                                                                                                                                                                                          Germany
                                UMBER: PCT/US95/05008
24-APR-1995
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alignment_block: us-09-444-711-1 \times pcr-us95-05008-11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 537 amino acids
459 TGGCAAGATCACCAGACGGGAGTCAGAGCGGTTACTGCTCAATGCAGAGA 508
                                                                          409 AGCAACTACGTGGCGCCCTCCGACTCCATCCAGGCTGAGGAGTGGTATTT 458
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TELEPHONE: (212)790-9090
TELEFAX: (212)869-9741
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Coruzzi, Laura REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 2
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER:
                                                                                                             spTrpTrpGluAlaArgSerLeuThrThrGlyGluThrGlyTyrIlePro 134
                                                                                                                                                                                          uSerPheHisLysGlyGluLysPheGlnIleLeuAsnSerSerGluGlyA 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   rGluGluArgAspGlySerLeuAsnGlnSerSerGlyTyrArgTyrGlyT
                                     SerAsnTyrValAlaProValAspSerIleGlnAlaGluGluTrpTyrPh
                                                                                                                                                                                                                                                                                                                                                                                AC...ACCGTCACCTCCCCGCAGAGGGCCGGGCCCGCTGGCCGGTGGAGTG 258
                                                                                                                                                                                                                                                                                                                                                                                                                      .....ValPheGlyGlyValAsnSerSerS 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           hrAspProThrProGlnHisTyrProSerPheGlyValThrSerIlePro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Quality: 1932.50
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        unknown
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ....GCCGACGGCCACCGCGGCCCCAGCGCGCGCCTT 161
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alignment_block: US-08-426-509A-15
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                                                                                                                                                                                                                                                                                                                                                                                                                     463 AAGATCACCAGACGGGAGTCAGAGCGGTTACTGCTCAATGCAGAGAACCC 512
|||||| |||::::::::||||||| |||||:::
148 LysIleGlyArgLysAspAlaGluArgGlnLeuLeuSerProGlyAsnPr 164
                                                                                                                                                                  513 GAGAGGGACCTTCCTCGTGCGAGAAAGTGAGACCACGAAAGGTGCCTACT 562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  813 GCTGGAGGTCAAGCTGGGCCAGGGCTGCTTTGGCGAGGTGTGGATGGGGA 862
                                                                                                                                                                                                                                                  613 TACAAGATCCGCAAGCTGGACAGCGGCGGCTTCTACATCACCTCCCGCAC
                                                                                                                                                                                                                                                                                                                                                          313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      163 GCCCCCGCGGCCGAGCCCAAGCTGTTCGGAGGCTTCAACTCCTCGGA 212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              113 CCAGCAAGCCAGCCTCGGCCGACGGCCCACCGCGCGCCCCAGCGCCCTTC 162
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           57 SerSerGlnAlaIleAsnPro........GlyPheLeuAspSerGl 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               40 ysAlaArgProAlaSerSerPheAlaHisIleProAsnTyrSerAsnPhe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13 AAGAGCAAGCCCAAGGATGCCAGCCAGCGGCGCGCAGCCTGGAGCCCGC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "hrLeuGlyLeuAlaLysAspAlaTrpGluIleSerArgSerSerIleTh
                                                                           ACTCAGGGCCTGGCCAAGGATGCCTGGGAGATCCCTCGGGAGTCGCTGCG
                                                                                                       {\tt spGlyLeuCysAsnLeuLeuIleAlaProCysThrIleMetLysProGln}
                                                                                                                                       ATGGCCTGTGCCACCGCCTCACCACCGTGTGCCCCACGTCCAAGCCGCAG
                                                                                                                                                                                                                                  TyrLysIleArgLysLeuAspMetGlyGlyTyrTyrIleThrThrArgVa
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863	CTGGAACGGTACCACCAGGGTGGCCATCAAAACCCTGAAGCCTGGCACG 91	2
281	TrpAsnGlySerThrLysValAlaValLysThrLeuLysProGlyThr 29	7
913	GTCTCCAGAGGCCTTCCTGCAGGAGGCCCAGGTCATGAAGAAGCTGAG 96	2
298	LysalaPheLeuGluGluAlaGlnValMetLysLeuLeuAr 31	4
963	CATGAGAAGCTGGTGCAGTTGTATGCTGTGGTTTCAGAGGAGCCCCATTT 10	2
314	gHisAspLysLeuValGlnLeuTyrAlaValValSerGluGluProIleT 33	H
1013	ATCGTCACGGAGTACATGAGCAAGGGGAGTTTGCTGGACTTTCTCAAG 10	62
331	alThrGluPheMetCysHisGlySerLeuLeuAspPheLeuLys 34	7
1063	GGGAGACAGGCAAGTACCTGCGGCTGCCTCAGCTGGTGGACATGGCTGC 11	. 12
348		Α.
1113	CAGGCATGGCGTACGTGGAGCGGATGAACTACGTCCACC 11	62
364	GlnValAlaGluGlyMetAlaTyrMetGluArgMetAsnTyrIleHisA 38	1
1163	GGGACCTTCGTGCAGCCAACATCCTGGTGGGAGAGAACCTGGTGTGCAAA 12	7
1213	TGGCCGACTTTGGGCTGGCTCGGCTCATTGAAGACAATGAGTACACGGC 12	62
398		4
1263	AAGGTGCCAAATTCCCCATCAAGTGGACGGCTCCAGAAGCTGCCC 13	12
414	heProIleLysTrpThrAlaProGluAlaAlaL 43	₩
1313	CTATGGCCGCTTCACCATCAAGTCGGACGTGTGGTCCTTCGGGATCCTG 13	6
431	heGlyArgPheThrIleLysSerAspValTrpSerPheGlyIleLeu 44	7
1363	CTGAGCTCACCACAAAGGGACGGGTGCCCTACCCTGGGATGGTGAA 14	12
448	uThrGluLeuIleThrLysGlyArgIleProTyrProGlyMetAsnLy 46	4
1413	GAGGTGCTGGACCAGGTGGAGCGGGGCTACCGGATGCCCTGCCCGC 14	63
464	ArgGluValLeuGluGlnValGluGlnGlyTyrHisMetProCysProP 48	1
1463	GTCCCTGCACGACCTCATGTGCCAGTGCTGGCGGAAG 15	12
. 481	oGlyCysProAlaSerLeuTyrGluAlaMetGluGlnThrTrpArgLeu 49	7
1513	GCCTGAGGAGCGGCCCACCTTCGAGTACCTGCAGGCCTTCCTGGAGGA 15	6
498	spProGluGluArgProThrPheGluTyrLeuGlnSerPheLeuGluAs 51	4
1563	CTACTTCACGTCCACCGAGCCCCAGTACCAGCCCGGGGAG 1602	
514	TyrPheThrSerAlaGluProGlnTyrGlnProGlyAs	

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Search time (sec): 81.300000
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-DB-A_Geneseq_032802 -OFMT=fastan -SUFFIX=n2p.rag -GAPOP=12.000
-GAPDEXT=4.000 -MINMATCH=0.100 -LOOPCL=0.000 -LOOPCEXT=0.000
-OGAPOP=4.500 -QGAPEXT=0.050 -XGAPOP=10.000 -XGAPEXT=0.500
-FGAPOP=6.000 -FGAPEXT=7.000 -YGAPOP=10.000 -XGAPEXT=0.500
-DELOP=6.000 -DELEXT=7.000 -STAFT=1 -MATRIX=blosum62
-TRANS=human40.cd1 -LIST=45 -DOCALIGN=200 -THR_SCORE=pct
-THR_MAX=100 -THR_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pfs
-CRM=ext -HEAPSIZE=500 -MINLEN -0 -MAXLEN=200000000
-SER=US09444711_eGCN1_1.0 -NOPU=6 -ICPU=3 -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -NO_XLEN=200010000
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/SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1999.DAT:AAY43956
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ID AAR39706 standard;
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The DNA encoding a portion or (more preferably) the entire pp60 c-src polypeptide (diven in AAQ46688) is used to transform endothelia cells. Transformed cells produce increased amounts of pp60 c-src and have improved therapeutic properties. They migrate at faster rates than non-transformed counterparts; have an enhanced ability to inhibit the formation of thrombi and/or dissolve thrombi once they have formed and exhibit reduced mononuclear cell adhesion. They can also be used to improve the success of surgical procedures such as coronary angioplasty, heart bypass surgery, vessel graft and stent
                                                                                                                                                                                                                                                                                               Genetically engineered endothelial cells - which exhibit enhanced cell migration, urokinase-type plasminogen activator activity, and reduced mononuclear cell adhesion and fibronectin prodn
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DB; AAR39705.
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seq_documentation_block:
ID AAY44449 standard; Pr
AC AAY44449;
XX AAY44449;
XX Angidgenesis; tyrosir
KW Angidgenesis; tyrosir
KW chicken; mutant Src;
KW negative regulation;
KW rheumatoid arthritis;
OS Synthetic.

YX Gallus Sp.
SX Gallus Sp.
VX CO-DEC-1999.
FT Misc-difference 527
FT Wisc-1999.
PP 02-DEC-1999.
YX 28-MAY-1999; 99WO-YX
PP 29-MAY-1998; 98US-YX
PP WO9961590-Al.
XX Cheresh DA, Eliceir
XX 29-MAY-1998; 98US-YX
PP 29-MAY-1999; 99WO-YX
PP 29-MAY-1999; 98US-YX
PP 29-MAY-1999;
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                                                                                                  SrcA. This sequence has a point mutation, Y527F, to activate c. Src. This site is involved in negative regulation by the kinase CSK. Phosphorylation of Tyr residue at 527 inactivates the protein. But in the mutated SrcA, the regulatory Tyr is replaced with Pho, thus constitutively activating the protein. This mutant Src protein can be used to modulate angiogenesis. When the Src protein is inactivated, angiogenesis is inhibited while, when it is activated, angiogenesis is potentiated. The mutant or variant Src can be used to treat inflammatory diseases like, arthritis, rheumatoid arthritis, diabetic retinopathy, restenosis, osteoporosis and cancer associated disorders.

Note: This sequence is not found in the specification, but derived
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      chicken; mutant Src; SrcA; point mutation; Y527F; phosphorylation; negative regulation; tyrosine; inflammatory disease; osteoporosis; rheumatoid arthritis; diabetic retinopathy; restenosis; cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               531
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         present sequence is the mutant chicken c-Src tyrosine kinase,
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                                                                          sequence in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Page -; 80pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      treatment of
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Percent Similarity:
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                                                                                                                                                                                                                                                                                                                                                                                              The DNA encoding a portion or (more preferably) the entire pp60 c-src polypeptide (Given in AAQ46687) is used to transform endothelial cells. Transformed cells produce increased amounts of pp60 c-src and have improved therapeutic properties. They migrate at faster rates than non-transformed counterparts; have an enhanced ability to inhibit the formation of thrombi and/or dissolve thrombi once they have formed and exhibit reduced mononuclear cell adhesion. They can also be used to improve the success of surgical procedures such as coronary angioplasty, heart bypass surgery, vessel graft and stent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Genetically engineered endothelial cells - which exhibit enhanced cell migration, urokinase-type plasminogen activator activity, and reduced mononuclear cell adhesion and fibronectin prodn
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                                                          GACTTTCTCAAGGGGGAGACAGGCAAGTACCTGCGGCTGCCTCAGCTGGT
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                                                                                                                                                                                                                                                                                                                                      SerLysProGlnThrGlnGlyLeuAlaLysAspAlaTrpGluIleProAr
                                              {\tt AspPheLeuLysGlyGluMetGlyLysTyrLeuArgLeuProGlnLeuVa}
                                                                                            luGluProIleTyrIleValThrGluTyrMetSerLysGlySerLeuLeu
                                                                                                                     AGGAGCCCATTTACATCGTCACGGAGTACATGAGCAAGGGGAGTTTGCTG
                                                                                                                                           LlysLysLeuArgHisGluLysLeuValGlnLeuTyrAlaValValSerG
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seq_documentation_block:
ID ABG23778 standard; Protein;
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The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating
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23-AUG-2000;
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2000US-0649167
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medical imaging; diagnostic;
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ProProGluCysProGluSerLeuHisAspLeuMetCysGlnCysTrpAr 532

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CC polypeptide (II) sequences. (I) is useful as hybridisation probes, CC polyperase chain reaction (PCR) primers, oligomers, and for chromosome CC and gene mapping, and in recombinant production of (II). The CC and gene mapping, and in recombinant production of (II). The CC and gene mapping, are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques CC for identifying expressed genes. (I) is useful in gene therapy techniques CC (II). (II) is useful for generating antibodies against it, detecting or CC quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating CC diagrant protein expression or biological activity. (I') the polypeptide and polynucleotide sequences have applications in CC diagnostics, gene mapping, identification of mutations cresponsible for genetic disorders or other traits to assess biodiversity amino acid sequences. ABG00010-ABG30377 represent novel human CC diagnostic amino acid sequences of the invention.

CC Note: The sequence data for this patent did not appear in the printed content of the polypear in the printed content 
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ftp.wipo.int/pub/published_pct_sequences
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US-09-444-711-1 x ABG10302
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TGCCACCGCCTCACCACCGTGTGCCCCACGTCCAAGCCGCAGACTCAGGG
                               spThrLeuGlnLysLeuValLysHisTyrThrGluHisAlaAspGlyLeu
                                                ACAGCCTGCAGCAGCTGGTGGCCTACTACTCCAAACACGCCGATGGCCTG
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Human 23-SEP-1999

yes1

protein. (first

entry)

Human; yesl; diagnosis; neuropsychiatric disorder; BAD; bipolar affective disorder; attention deficit disorder; schizoaffective disorder; unipolar affective disorder; Huntington's disease; Parkinson's disease; manic-depres

manic-depression

schizophrenia;

seq\_documentation\_block:

AAY24421 standard;

Protein;

543 A

seq\_name: /SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1999.DAT:AAY24421

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                            CGTCCACCGAGCCCCAGTACCAGCCCGGGGAGAACCTC
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                                                                                                                 CCCGAGTCCCTGCACGACCTCATGTGCCAGTGCTGGCGGAAGGAGCCTGA
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seq_documentation_block:
ID ABG23777 standard; Protein; 351
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WPI; 2001-639362/73
N-PSDB; AAS87964.
                                                                                                                           31-MAR-2000; 2000US-0540217.
23-AUG-2000; 2000US-0649167.
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                                                     Drmanac RT,
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                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                               Human; chromosome mapping; gene mapping; gene therapy; forension some mapping; gene therapy; forension some food supplement; medical imaging; diagnostic; genetic disorder
                                                                                          (HYSE-) HYSEQ INC
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                                                    Tang
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polynuclectides are also used in diagnostics as expressed sequence tags (C for identifying expressed genes. (I) is useful in gene therapy techniques (II). (II) is useful for generating antibodies against it, detecting or c quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical (Imaging of sites expressing (II). (I) and (II) are useful for treating (Imaging of sites expressing (II). (I) and (II) are useful for treating (II) are useful for treatin
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromo and gene mapping, and in recombinant production of (II). The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutation responsible for genetic disorders or other traits and to assess biodiversity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim
                                                                            ftp.wipo.int/pub/published_pct_sequences.
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351 AA;
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alignment\_block: alignment\_scores: US-09-444-711-1 x ABG23777 Percent Similarity: 100.000 Quality: 1867.00 Ratio: 5.319 from: 1 Gaps: 0
Percent Identity: 100.000 ţo:

Align seg 1/1 to: ABG23777

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                                                                                                               Claim 1; Page 434-5; 438pp; English.
                                                                                                                                             Crystal of a protein-ligand complex for identifying kinase inhibitors, comprises a truncated lymphocyte kinase and a ligand, and diffracts X-rays to determine atomic coordinates at a resolution greater than 5
                                                                                                                                                                                                                                                                                                                                                            Human; lymphocyte kinase; protein
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The present invention relates to a crystal of a protein-ligand complex comprising a truncated lymphocyte kinase (Lok) and a ligand. The crystal diffracts X-rays so that the atomic coordinates of the protein-ligand complex can be determined to a resolution of greater than 5.0 Angstroms. The truncated lck used in the present invention comprises the globular core of the corresponding full-length lck. The present sequence is the full-length human lck protein. The crystal of the present invention may be used to identify kinase inhibitors in screening assays, in drug screening and drug design processes, to design, select or test inhibitors of kinase enzymes, where the inhibitors are used as therapeutics for the

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US-09-444-711-1 x AAY49420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CC The invention provides a novel method of altering the activity of the CC protein kinase A (PKA) signaling pathway in a cell that comprises CC altering the extent of phosphorylation of one or more PKA substrates, or CC kinase substrates downstream in the PKA signaling pathway. Pharmaceutical CC compositions containing a nucleic acid molecule that encodes a PKA CC substrate, or fragment, precursor or functionally equivalent variant, CC where the sequence is modified to alter its susceptibility to CC phosphorylation by PKA can be used for treating a disorder exhibiting CC abnormal PKA signaling activity, immunosuppressive disorders or CC proliferative diseases. They can be used for treating e.g. HIV CC infection, AIDS, common variable immunodeficiency or cancers. Conditions CC in which upregulation of the PKA pathway is required, such as autoimmune CC disease, e.g. systemic lupus erythematosus, may also be treated. The CC cresent sequence represents a PKA substrate, wherein the substrate is in CC the Src-family, preferably Lck, Fyn, Src, Yes, Fgr, Lyn, Hck Blk, Yrk, CC c-tkl, Fyk, Src-l or Src-2.
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CATCCAGGCTGAGGAGTGGTATTTTGGCAAGATCACCAGACGGGAGTCAG
                                 ThrGlyGlnGluGlyPheIleProPheAsnPheValAlaLysAlaAsnSe
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                  GTCGGACGTGTGGTCCTTCGGGATCCTGACTGAGCTCACCACAAAGG
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                                                                          IleLysTrpThrAlaProGluAlaIleAsnTyrGlyThrPheThrIleLy
                                                                                                                                                      rgLeuIleGluAspAsnGluTyrThrAlaArgGluGlyAlaLysPhePro
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                                                                                                                               TCCCCATCAAGTGGACGGCTCCAGAAGCTGCCCTCTATGGCCGCTTCACC 1329
                               CTGCACGACCTCATGTGCCAGTGCTGGCGGAAGGAGCCTGAGGAGCGGCC 1529
                                                                               AGGTGGAGCGGGCTACCGGATGCCCTGCCCGCCGGAGTGTCCCGAGTCC 1479
LeuTyrSerIleMetLeuGlnCysTrpGlnGlnAspProGluGlnArgPr 472
                                                               laLeuGluArgGlyTyrArgMetProCysProSerThrCysProLysGlu 455
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                                                                                                                                                                                                                  GGCCATCAAAACCCTGAAGCCTGGCACGATGTCTCCAGAGGCCTTCCTGC 934
                                                                                                          luTrpGluValProArgGluThrLeuLysLeuValGluArgLeuGlyAla
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rGlnLeuMetArgLeuCysTrpLysGluArgProGluAspArgProThrP
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Protein kinase A; PKA; PKA signaling pathway; phosphorylation; cancer; kinase substrate; immunosuppressive disorder; proliferative disease; HIV infection; AIDS; immunodeficiency; autoimmune disease; systemic lupus erythematosus; Src-family.

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                               CTTCGGGATCCTGACTGAGCTCACCACAAAGGGACGGGTGCCCTACC
                                                              ProGluAlaAlaLeuTyrGlyArgPheThrIleLysSerAspValTrpSe
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; MOLECULE TYP:
US-08-426-509A-15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          seq_name: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:US-08-426-509A-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15, Application Patent No. 6326469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                          TELEX: 66141 PENNIE INFORMATION FOR SEQ ID NO:
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SOFTWARE: FastSEQ Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     501
                                                                                                                                                      TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-790-9090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Ullrich, Axel
APPLICANT: Gishizsky, Mikhail
APPLICANT: Sures, Irman G.
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                                                                                         SEQUENCE CHARACTERISTICS
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                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE: New York,
                                           STRANDEDNESS:
                                                                                                                   TELEFAX: 212-869-97
                                                                                                                                                                                     NAME: COTUZZI, Laura A REGISTRATION NUMBER: 30 REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                 APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                   FILING DATE: 2
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER:
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                                                          amino acid
                TYPE:
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No. 6326469e
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seq\_name: /SIDS1/gcgdata/geneseq/geneseqp-emb1/AA2000.DAT:AAY4447

Protein;

(first entry)

c-Src tyrosine kinase

seq\_documentation\_block:
ID AAY44447;
XX AAY44447;
XX 22-MAR-2000 (first of the control of the c Angiogenesis; tyrosine kinase; Src; chicken; viral expression vector; re inflammatory disease; retinopathy; expression vector; replication competen: isease; arthritis; rheumatoid arthritis; opathy; osteoporosis; cancer. replication competent; inhibition; activation; modulate;
eplication competent; variant Src; restenosis;

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seq_documentation_block:
ID AAB84661 standard; pr
XX
AC AAB84661;
XX
O5-SEP-2001 (first e
XX
DT 05-SEP-2001 (first e
XX
DE Amino acid sequence c
XX
KW Vascular permeability
KW myocardial infarction
KW diabetic retinopathy;
KW adult respiratory dis
KW diabetic retinopathy;
KW capillary proliferati
XX
OS Gallus sp.
XX
PD 28-JUN-2001.
XX
PD 28-JUN-2001.
XX
PD 28-JUN-2001.
XX
PD 29-DEC-1999; 99US-C
XX
22-DEC-1999; 99US-C
        CCCCCXXX PTTXX DRXXX CCCCCCXXX
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The specification describes a method for modulating vascular permeability in a tissue suffering from a disease condition. The method comprises contacting the tissue with a pharmaceutical composition comprising tyrosine kinase protein Src, Yes or their mixtures or nucleic acid expressing them. The method is useful for modulating vascular permeability in tissues, including inflamed tissue, tissues.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Vascular permeability; tyrosine kinase protein; Src; Yes; stroke; myocardial infarction; restenosis; trauma; blood vessel; atherosc! diabetic retinopathy; inflammatory disease; infection; arthritis; adult respiratory distress syndrome; ARDS; rheumatoid arthritis; diabetic retinopathy; psoriasis; neovascular glaucoma; capillary proliferation; osteoporosis; cancer.
                                                                                                                                                                    Modulating vascular permeability in tissues, including inflamed tissue tissues associated with stroke, myocardial infarction, by contacting the tissue with tyrosine kinase protein Src; Yes or their modified
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29-MAR-2000;
                                                                                                                       Disclosure; Fig
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Amino acid sequence of chicken
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DB; AAH28357.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                normal flow, tissues undergoing restenosis, psoriatic, retinal tissue and similar tissues. Pathologies which may be treated include include trauma to blood vessels, and other systemic pathological events such as atherosclerosis, diabetic retinopathy, inflammatory disease due to infection by microbial agents and arthritis. Other diseases which can be treated include adult respiratory distress syntome (ARDS), rheumatoid arthritis, diabetic retinopathy, psoriasis, neovascular glaucoma, capillary proliferation in atherosclerotic plaques and osteoporosis and cancer associated disorders such as solid tumours, solid tumour metastases, angiofibromas and hemangiomas. The present sequence represents chicken Src, and is used in the method of the invention.
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                                                       TGGTATTTTGGCAAGATCACCAGACGGGAGTCAGAGCGGTTACTGCTCAA
                                                                                                                                                                                yrIleProSerAsnTyrValAlaProSerAspSerIleGlnAlaGluGlu
                                                                                                                                                                                                                                                            MetGlySerSerLysSerLysProLysAspProSerGlnArgArgArgSe
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Gaps: 1
Percent Identity: 94.030
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alignment_block:
US-09-444-711-1 x AAY44449
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TCCAAGCCGCAGACTCAGGGCCTGGCCAAGGATGCCTGGGAGATCCCTCG 800
                                                    CACCTCCCGCACCCAGTTCAACAGCCTGCAGCAGCTGGTGGCCTACTACT 700
                         CCAAACACGCCGATGGCCTGTGCCACCGCCTCACCACCGCGTGTGCCCCACG 750
                                                                              AACGTGAAGCACTACAAGATCCGCAAGCTGGACAGCGGCGGCTTCTACAT 650
                                                                                                                                                                                      ThrAspLeuSerPheLysLysGlyGluArgLeuGlnIleValAsnAsnTh
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Ratio: 5.105
milarity: 97.201
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Percent Identity: 93.843
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AGAACCTC 1608	CTTCCTGGAGGACTACTTCACGTCCACCGAGCCCCAGTACCAGCCCGGGG 16 	TGCTGGCGGAAGGAGCCTGAGGAGCGGCCCACCTTCGAGTACCTGCAGGC 15          ::::::	TGCCCTGCCCGCCGGAGTGTCCCGAGTCCCTGCACGACCTCATGTGCCAG 15	1 TGGGATGGTGAACCGCGAGGTGCTGGACCAGGTGGAGCGGGGCTACCGGA 14 	1 TTCGGGATCCTGCTGACTGAGCTCACCACAAAGGGACGGGTGCCCTACCC 14	1 CAGAAGCTGCCCTCTATGGCCGCTTCACCATCAAGTCGGACGTGTGGTCC 13 	TGAGTACACGGCGCGGCAAGGTGCCAAATTCCCCCATCAAGTGGACGCCTC 13 	1 CTGGTGTGCAAAGTGGCCGACTTTGGGCTGGCTCGGCTC	1 ACTACGTCCACCGGGACCTTCGTGCAGCCAACATCCTGGTGGGAGAGAAC 12 	1 GGACATGGCTGCTCAGATCGCCTCAGGCATGGCGTACGTGGAGCGGATGA 11 	1 GACTTTCTCAAGGGGGAGACAGGCAAGTACCTGCGGCTGCCTCAGCTGGT 11 	AGGAGCCCATTTACATCGTCACGGAGTACATGAGCAAGGGGAGTTTGCTG 10 	GAAGAAGCTGAGGCATGAGAAGCTGGTGCAGTTGTATGCTGTGGTTTCAG 1	1 AAGCCTGGCACGATGTCTCCAGAGGCCTTCCTGCAGGAGGCCCAGGTCAT 95	1 TGTGGATGGGGACCTGGAACGGTACCACCAGGGTGGCCATCAAAACCCTG 90 	1 GGAGTCGCTGCGGCTGGAGGTCAAGCTGGGCCAGGGCTGCTTTGGCGAGG 85 
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seq\_name: /SIDS1/gcgdata/geneseq/geneseqp-embl/AA1993.DAT:AAR39705
seq\_documentation\_block:
ID AAR39705 standard; Protein; 533 AA.
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ID AAY44451 standard;
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                                                                                                                                             Gallus sp.
Synthetic.
                                                                                                                                                                        Anglogenesis; tyrosine kinase; Src; inhibition; activation; modulate; chicken; mutant; Src(K295M); point mutation; tumour cell signalling; ATP binding; proliferation; kinase domain; inflammatory disease; cancer; osteoporosis; rheumatoid arthritis; diabetic retinopathy; restenosis.
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         29-MAY-1998;
                                                                                                                                                                                                                              Mutant chicken c-Src tyrosine kinase, Src(K295M).
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                             28-MAY-1999;
                                                                       WO9961590-A1
                                                                                                               Misc-difference
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                                                                                                                                                                                                                                                    (first entry)
         98US-0087220
                             99WO-US11780.
                                                                                                             Location/Qualifiers
                                                                                          /note-
                                                                                                   /label= K295M
                                                                                                                                                                                                                                                                                            Protein;
                                                                                        type Lys replaced
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alignment_block:
US-09-444-711-1 x AAY44451
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence is the mutant chicken c-Src tyrosine kinase, Src(K295M). This sequence has a point mutation, K295M, in the kinase domain, which prevents ATP binding and also blocks kinase dependent Src functions related to vascular cell and tumour cell signalling and proliferation. This mutant Src(K295M) protein, can be used to modulate specifically, inhibit angiogenesis. When the Src protein is inactivated, angiogenesis is inhibited while, when it is activated, angiogenesis is potentiated. The mutant or variant Src can be used to treat inflammatory diseases like, arthritis, rheumatoid arthritis, diabetic retinopathy, restenosis, osteoporosis and cancer associated disorders.

Note: This sequence is not found in the specification, but derived from the sequence in Fig 2.
                                                                                                                                                                                                            401
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ACAGACCTGTCCTTCAAGAAAGGCGAGCGCTCCAGATTGTCAACAACAC 350
                                                                                                                                                                                                                                                                   AGCGCGGCCTTCGCCCCCGCGGCCGAGCCCCAAGCTGTTCGGAGGCTT
                                                                                                                                                                                                                                                                                                                              laSerGlnThrProAsnLysThrAlaAlaProAspThrHisArgThrPro
                                                                                                                                                      lyGlyValThrThrPheValAlaLeuTyrAspTyrGluSerArgThrGlu
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131

yrIleProSerAsnTyrValAlaProSerAspSerIleGlnAlaGluGlu

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seq_documentation_block:
                                                                                                                                                                                                                                                                                                      seq_name: /SIDS1/gcgdata/geneseq/geneseqp-embl/AA2001.DAT:AAB99332
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               Human; tyrosine kinase Hck binding protein; tyrosine kinase; Hck; tumour lethal factor; tumour necrosis factor alpha; apoptosis; HSB-1; Hck signal transduction; human immunodeficiency virus; HIV infection;
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alignment_block:
US-09-444-711-1 x AAB99332
                                                                                                                                                                                                                                                             alignment_scores:
                                                                  Align seg 1/1 to:
                                                                                                                                                       Percent Similarity:
                                                                                                                                                                                                                                                                                        to human tyrosine kinase Hck. Also described are: (1) nucleic acids encoding the protein and its derivatives; (2) recombinant vectors containing the nucleic acids; and (3) host cells transformed by the vectors and expressing the protein. HSB-1 has cytostatic activity, binds tyrosine kinase, enhances tumour necrosis factor alpha and promotes apoptosis. HSB-1 proteins are used for the elucidation of the mechanism of Hck signal transduction and of the role of Hck in human immunodeficiency virus (HIV) infection. They can be used for the treatment of infections and other diseases with which Hck is associated. They promote the anticancer activity of tumour necrosis factor alpha. The present sequence represents the human tyrosine kinase Hck protein, which is used in an example from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New proteins which bind to human tyrosine kinase Hck for promotion apoptosis and for the elucidation of the mechanism of Hck signal transduction \, -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI;
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                                                                                                                                                                                                                                                             Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes a protein, designated HSB-1, which binds
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12 GlyGlyAsnThrPheSerLysThrGluThr.SerAlaSerProHisCysP
                                  82 GGCGGGGGCGCTTTCCCCCGCCTCGCAGACCCCCAGCAAGCCAG.....
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                                                         ....ValAlaLeuTyrAspTyrGluAlaIleHisHisGluAspLeuSerP
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                                                                                                             CGGCGCGGCAAGGTGCCAAATTCCCCATCAAGTGGACGGCTCCAGAAGCT 1308
                                                                                                                                                     sLysIleAlaAspPheGlyLeuAlaArgLeuIleGluAspAsnGluTyrT 416
                                                                                                                                                                                                           HisArgAspLeuArgSerAlaAsnIleLeuValGlyAsnGlyLeuIleCy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              eGlyLysLeuGlyArgLysAspAlaGluArgGlnLeuLeuSerPheGlyA 167
                                                                                              hrAlaArgGlnGlyAlaLysPheProIleLysTrpThrAlaProGluAla
                                        AlaLeuTyrGlyArgPheThrIleLysSerAspValTrpSerPheGlyIl
                                                                                              432
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; NAME/KEY:
; LOCATION:
US-08-665-647-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          seq_documentation_block:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             seq_name:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Dasquez, Nicki J.
APPLICANT: Ron, Dorit
APPLICANT: Voronova, Anna F.
APPLICANT: Napolitano, Eugene W.
TITLE OF INVENTION: METHODS TO IDENT
TITLE OF INVENTION: USING COGNATE IN
NUMBER OF SEQUENCES: 89
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                 TELEX: 90-4030 MRSNFOERSWSH
INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: MUZASHIGE, KATE H.
REGISTRATION UNMBER: 29,959
REFERENCE/DOCKET NUMBER: 2555
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 822-016
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1509
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY USA
COUNTRY: USA
COUNTRY: 20006-1888
TTD: 2000B-188F
                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/0
FILING DATE: 18-JUN-1996
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      499
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                                                                                                                                                                SEQUENCE CHARACTERISTICS:
                                                         FEATURE:
                                                                          MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: 2000 Peni
CITY: Washington
                                                                                                          TYPE: amino acid
STRANDEDNESS: si
                                                                                             TOPOLOGY:
                                                                                                                                               LENGTH:
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                                                                                                                                              532 amino acids

    MORRISON & FOERSTER
    2000 Pennsylvania Avenue,

                    CDS
1.,1002
                                                                                             linear
                                                                          peptide
                                                                                                            single
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ATE INTERACTION OF PKC-THETA
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alignment\_scores: Ratio: Percent Similarity:

Quality: 1944.00 Ratio: 4.208 nilarity: 84.000

Gaps: Percent Identity:

68.545

Length:

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alignment_block:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; TOPOLOGY: unknown; MOLECULE TYPE: No. (
US-08-426-509A-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Align seg 1/1 to: US-08-426-509A-11 from: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-444-711-1 x US-08-426-509A-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: 212-869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 11:
                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 537 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: COTUZZI, Laura A
REGIZTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 76:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212.790-9090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version 2.0
CURRENT APPLICATION DATA:
                                                                                              162 CGCCCCGCGGCCGAGCCCAAGCTGTTCGGAGGCTTCAACTCCTCGG 211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                     212 AC...ACCGTCACCTCCCCGCAGAGGGCGGGCCCGCTGGCCGGTGGAGTG 258
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: NO TITLE OF INVENTION: TY NUMBER OF SEQUENCES: 2 CORRESPONDENCE ADDRESS
     71
                                                                                                                                                                                                                          32 hrAspProThrProGlnHisTyrProSerPheGlyValThrSerIlePro 48
                                                                                                                                                                                                                                                                                                     15 rGluGluArgAspGlySerLeuAsnGlnSerSerGlyTyrArgTyrGlyT 32
                                                                          63 ......ValPheGlyGlyValAsnSerSerS 71
                                                                                                                                                   49 AsnTyrAsnAsnPheHisAlaAlaGlyGlyGlnGlyLeuThr..... 62
                                                                                                                                                                                                                                                                                                                                          51 CCTGGAGCCCGAGAACGTGCACGGCGCTGGCGGGGGGGCGCTTTCCCCG 100
                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/08/426,509A FILING DATE: 21-APR-1995 CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                              1 MetGlyCysValGlnCysLysAspLysGluAlaThr....LysLeuTh 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 08/232,545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE:
erHisThrGlyThrLeuArgThrArgGlyGlyThr......GlyVal 84
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pennie & Edmonds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       No. 6326469e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              unknown
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length: 553
Gaps: 6
Percent Identity: 67.812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7683-0074-999
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1149 384	TGGACATGGCTGCTCAGATCGCCTCAGGCATGGCGTACGTGGAGCGGATG	1100 368
1099 368	GGACTTTCTCAAGGGGGAGACAGGCAAGTACCTGCGGCTGCCTCAGCTGG              	1050 351
1049 351	GAGGAGCCCATTTACATCGTCACGGAGTACATGAGCAAGGGGAGTTTGCT 	1000 335
999 334	TGAAGAAGCTGAGGCATGAGAAGCTGGTGCAGTTGTATGCTGTGGTTTCA            ::   :::	950 318
949 318	GAAGCCTGGCACGATGTCTCCAGAGGCCTTCCTGCAGGAGGCCCAGGTCA 	10E
899 301	GTGTGGATGGGGACCTGGAACGGTACCACCAGGGTGGCCATCAAAACCCT 	285 285
849 284	GGGAGTCGCTGCGGCTGCAGGTCAAGCTTGGGCCAGGCCTGCTTTGGCGAG	800 268
799 268	GCAGACTCAGGGCCTGGCCAAGGATGCCTGGGAGATCCCTC   :::         :::	759 251
758 251	GCCGATGGCCTGTGCCACCGCCTCACCACCGTGTGCCCACGTCCAAGCC	709 235
708	GCACCCAGTTCAACAGCCTGCAGCAGCTGGTGGCCTACTACTCCAAACAC   :::     ::::::	659 218
658 218	GCACTACAAGATCCGCAAGCTGGACAGCGGGGGGGTTCTACATCACCTCCC 	609 201
608 201	TACTGCCTCTCAGTGTCTGACTTCGACAACGCCAAGGGCCTCAACGTGAA 	185
558 184	ACCCGAGAGGGACCTTCCTCGTGCGAGAAAGTGAGACCACGAAAGGTGCC 	168
508 168	TGGCAAGATCACCAGACGGGAGTCAGAGGGGTTACTGCTCAATGCAGAGA        :::	459 151
458 151	AGCAACTACGTGGCGCCCTCCGACTCCATCCAGGCTGAGGAGTGGTATTT	409 135
408 134	ACTGGTGGCTGGCCCACTCGCTCAGCACAGGACAGACAGGCTACATCCCC	359 118
358 118	GTCCTTCAAGAAAGGCGAGCGGCTCCAGATTGTCAACAACACGGAGGGAG	309
308 101	ACCACCTTTGTGGCCCTCTATGACTATGAGTCTAGGACGGAGACAGAC	259 85

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alignment_block:
US-09-444-711-1 x US-08-426-509A-14
                                                                                                                                                                                                                                              ; TOPOLOGY: unknown; MOLECULE TYPE: No. 6326469e US-08-426-509A-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    seq_documentation_block:
    Sequence 14, Application US/08426509A
    Patent No. 6326469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       seq_name: /cgn2_6/ptodata/1/laa/6B_COMB.pep:US-08-426-509A-14
                                                    Align seg 1/1 to: US-08-426-509A-14 from: 1 to: 543
                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:

NAME: COTUZZÍ, LAUTA A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-0074-999
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-99-999
TELEPHONE: 212-99-9941
TELEPX: 66141 PENNIE
NFORMATION FOR SEQ ID NO: 14:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ VERSION 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/426,509A
FILING DATE: 21-APR-1995
CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: 08/232,545
APPLICATION NUMBER: 08/232,545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1601 AGAACCTC 1608
                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
LENGTH: 543 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Ullrich,, Axel
APPLICANT: Gishizsky, Mikhail
APPLICANT: Sures,, Irman G.
TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN
TITLE OF INVENTION: TYROSINE KINASES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            531 luAsnLeu 533
1 ATGGGTAGCAACAAGAGCAAGCCC...AAGGATGCCAGCCAGCGGCCCCG
                                                                                                                                                                                                                                                                                           STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: New York,
STATE: NY
                                                                                                                                                                                                                                                                                                               TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
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1155 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           USA
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                                                                                                                                                                                                                                                                                          unknown
                                                                                                                                      Length:
Gaps:
Percent Identity:
                                                                                                                                        4
74.542
                                                                                                                                                                          546
                   47
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	MetGlyCysIleLysSerLysGluAsnLysSerProAlaIleLysTyrAr l	7
48	AGCCTGGAGCCCGCCGAGAACGTGCACGGCGCTGGCGGGG	1
17	alSerThrSerValSerHisTyrGly	4
92	TCCCCGCCTCGCAGACCCCCAGCAAGCCAGCCTCGGC	
3 <b>4</b>	aGluProThrThrValSerProCysProSerSerAla	7
142 48	CGCGGCCCCAGCGCGCGCCTTCGCCCCCGCGGCCGCCGAGCCC 1 :::    :::::     :::  ::     LysGlyThrAlaValAsnPheSerSerLeuSerMetThrProPheGlyGl 6	183
184	AAGCTGTTCGGAGGCTTCAACTCCTCGGACACCGTC	220
64	GlyValThrProPheGlyGlyAlaSerSerSerPheSerVa	1
221 81	CCTCCCCGAGAGGGCGGGCCCGCTGGCCGGTGGAGTGACCACCTTTGTG 2 :: ::     :::	270 97
271	CCCTCTATGACTATGAGTCTAGGACGGAGACAGACCTGTCCTTCAAGAA	320
98		134
321 114	AGGCGAGCGGCTCCAGATTGTCAACAACACGGAGGAGGAGACTGGTGGCTGG 3          :::     :::	370 131
371	CCCACTCGCTCAGCACAGGACAGGACAGGCTACATCCCCAGCAACTACGTG 4	120
421	CGCCCTCCGACTCCATCCAGGCTGAGGAGTGGTATTTTGGCAAGATCAC	7
148	:::	164
471 164	CAGACGGGAGTCAGAGCGGTTACTGCTCAATGCAGAGAAACCCGAGAGAGGGA 5         :::::::::	520 181
521 181	CCTTCCTCGTGCGAGAAAGTGAGACCACGAAAGGTGCCTACTGCCTCTCA 5	570 197
571 198	GTGTCTGACTTCGACAACGCCAAGGGCCTCAACGTGAAGCACTACAAGAT 6 :::    :::   ::: :::	520 214
621	AGCTGGACAGCGGCGGCTTCTACATCACCTCCCGCACCCAGTT	
21 <b>4</b> 671	ArglysteuaspasnolyGlyTyrTyrTleThrThrargAlaGlnPhe CagcCTGCAgCagCTGGTGGCCTaCTACTCCAAaCACGCCGATGGCCT	231 720
231	:::   :::::	4
721 248	TGCCACCGCCTCACCACCGTGTGCCCCACGTCCAAGCCGCAGACTCAGGG 7	770 264
771 264	CCTGGCCAAGGATGCCTGGGAGATCCCTCGGGAGTCGCTGCGGCTGGAGG 8	320 281
821 281	TCAAGCTGGGCCAGGGCTGCTTTGGCGAGGTGTGGATGGGGACCTGGAAC 8	370
871	GGTACCACCAGGGTGGCCATCAAAAACCCTGAAGCCTGGCACGATGTCTCC 9          :::	)20

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1021
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      621
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              521
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                                                                                                                                                                                                                                  CGTGCAGCCAACATCCTGGTGGGAGAAACCTGGTGTGCAAAGTGGCCGA
                                                                                                                            AGGCAAGTACCTGCGGCTGCCTCAGCTGGTGGACATGGCTGCTCAGATCG 1120
                                                                                                                                                                      AGAGGCCTTCCTGCAGGAGGCCCCAGGTCATGAAGAAGCTGAGGCATGAGA
                                                                                                                                                                                                                                                                                                                                                                          GGTACCACCAGGGTGGCCATCAAAACCCTGAAGCCTGGCACGATGTCTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                     TCAAGCTGGGCCAGGGCTGCTTTGGCGAGGTGTGGATGGGGACCTGGAAC
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                                                                                                            pGlyLysTyrLeuLysLeuProGlnLeuValAspMetAlaAlaGlnIleA
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                                               laAspGlyMetAlaTyrTleGluArgMetAsnTyrTleHisArgAspLeu
                                                                              CCTCAGGCATGGCGTACGTGGAGCGGATGAACTACGTCCACCGGGACCTT
                                                                                                                                                                                                      ACGGAGTACATGAGCAAGGGGAGTTTGCTGGACTTTCTCAAGGGGGAGAC 1070
                                                                                                                                                                                                                                                                                             oGluAlaPheLeuGlnGluAlaGlnIleMetLysLysLeuArgHisAspL
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seq_name: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:US-08-426-509A-12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION: APPLICANT: Ullric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1521
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                                                                                                                                         APPLICATION NUMBER: US/01 FILING DATE: 21-ARR-1995 CLASSIFICATION: 435 PRIOR APPLICATION DATA: APPLICATION NUMBER: 08/2:
                           REFERENCE/DOCKET NUMBER: 76
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-790-9090
                                                                                                                                                                                                                        OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         514
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                                                                                                           ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Gishizsky,, Mikhail APPLICANT: Sures,, Irman G.
TELEPHONE: 212-869-9741
                                                                            NAME: Coruzzi, Laura A
REGISTRATION NUMBER: 3
                                                                                                                               FILING DATE:
                                                                                                                                                                                                                                                                           COMPUTER:
                                                                                                                                                                                                                                                                                                                                           COUNTRY:
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rAlaThrGluProGlnTyrGlnProGlyAspAsn 535

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alignment_scores:
Quality: 1949.00
Ratio: 4.350
Percent Similarity: 84.848
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                                                                                                                                                              alignment_block:
US-09-444-711-1 x PCT-US95-05008-12
                                                                                                                                                                                                                                                                                                                   PCT-US95-05008-12
                                                                                                                                 Align seg 1/1 to: PCT-US95-05008-12
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                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (212)869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: ut
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
NAME: COTUZZI, LAUTA A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-074
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)790-9910
TELEPHAX: (212)869-9741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
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TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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CORRESPONDENCE ADDRESS:
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24
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STRANDEDNESS: unl
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                    ENGTH:
aHisProProSerGlnTyrAspProAspProThrGlnLeuSerGlyAlaP 41
                             TTTCCCCGCCTCGCAGACCCCCAGCAAGCCAGCCTCGGCCGACGGC.... 138
                                                               GluLysIleSerGlyLysGlyGlnGlyGlySerGlyThrGlyThrProAl 24
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New York
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United States of America
Wissenschaften E.V.
Hofgarten Str. 2
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24-APR-1995
                                                                                                                                                                                                                                                                                                                                                                   unknown
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                                                                                                                                                                                                                  Percent Identity:
                                                                                                                                   from:
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972 GCTGGTGCAGTTGTATGCTGTGGTTTCAGAGGAGCCCATTTACATCGTCA 1021
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                                                                                    922 GAGGCCTTCCTGCAGGAGGCCCAGGTCATGAAGAAGCTGAGGCATGAGAA 971
                                                                                                                                                                                                   822 CAAGCTGGGCCAGGGCTGCTTTGGCGAGGTGTGGATGGGGACCTGGAACG 871
                                                                                                                                                                                                                               258 LysThrLysAspValTrpGluIleProArgGluSerLeuGlnLeuLeuGl
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alignment_scores:
Quality: 2834.00
Ratio: 5.287
Percent Similarity: 100.000
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                                                                                                                                                                                                                                                                                                                      Align seg 1/1 to: PCT-US95-05008-13
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INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 536 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
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NAME: COTUZZI, LAUTA A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-074
TELECOMMUNICATION INFORMATION:
TELEFAX: (212)790-9090
TELEFAX: (212)869-9741
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09-444-711-1 x PCT-US95-05008-13
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: FLORY PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION UMBER: PCT/US95/05008
FILING DATE: 24-APR-1995
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/232,545
FILING DATE: 22-APR-1994
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: NOT TITLE OF INVENTION: KILL NUMBER OF SEQUENCES: 2: CORRESPONDENCE ADDRESS:
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STREET: 1155 Aven CITY: New York STATE: New York COUNTRY: U.S.A. ZIP: 10036
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                                                                                                    MetGlySerAsnLysSerLysProLysAspAlaSerGlnArgArgArgSe 17
                                 AGCGCGGCCTTCGCCCCCGCGGCCGAGCCCAAGCTGTTCGGAGGCTT 200
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Gaps: 0
Percent Identity: 100.000
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	351 AspPheLeuLysGlyGluThrGlyLysTyrLeuArgLeuProGlnLeuVa	
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oo U	01 GGAGTCGCTGCGGCTGGAGGTCAAGCTGGGCCAGGGCTGCTTTGGCGAG 	
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650 · 217	601 AACGTGAAGCACTACAAGATCCGCAAGCTGGACAGCGGCGGCTTCTACAT 	
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400 134	351 GGAGGGAGACTGGTGGCCGGCCCACTCGCTCAGCACAGGACAGACA	
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RESULT 14
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APPLICANT: Hemmati-Brivanlou, Ali
APPLICANT: Weinstein, Daniel C.
TITLE OF INVENTION: A NOVEL SRC-FAMILY KINASE
TITLE OF INVENTION: USE THEREOF
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
                                                                                                                                TELEX: 133521
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 780 base pairs
                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0.
CURRENT APPLICATION DATA:
                              HYPOTHETICAL: FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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                                                                  MOLECULE TYPE:
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NAME/KEY:
                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/0 FILING DATE: 12-JAN-1999 CLASSIFICATION: 435
                                                                                                                                                                                                                                                              NAME: Jackson Esq., David A. REGISTRATION NUMBER: 26,742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET:
                                                                                                 STRANDEDNESS:
                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER:
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                                                                                   TOPOLOGY:
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US-08-426-509A-5

Sequence 5, Application Patent No. 6326469 GENERAL INFORMATION:

US/08426509A

APPLICANT:

Ullrich,, Axel

APPLICANT: Gishizsky,, Mikhail
APPLICANT: Sures,, Irman G.
TITLE OF INVENTION: NOVEL MEGAKA
TITLE OF INVENTION: TYROSINE KIN
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:

NOVEL MEGAKARYOCYTIC TYROSINE KINASES

ADDRESSEE: Pennie a bumching APPREST: 1155 Avenue of the Americas

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721 TGGCAGCAGGACCCTGAGCAACGGCCAACGTTTGAATATTTACAGAGCATCCTAGAGGAC
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                tggcggaaggagcctgaggagcggcccaccttcgagtacctgcaggccttcctggaggac
                                                              TATCGCATGCCGTGTCCCAGCACTTGTCCAAAAGAGCTCTACAGCATCATGCTCCAGTGT
                                                                             taccggatgccctgcccgccggagtgtcccgagtccctgcacgacctcatgtgccagtgc 1503
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Pred. No. 6.4e-61;
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FITTLE OF INVENTION: Protein Kinase Homologs
FILE REFERENCE: PF-0614 US
CURRENT APPLICATION NUMBER: US/09/173,581A
CURRENT FILING DATE: 1998-10-15
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PERL PROGRAM
SEQ ID NO 12
LENGTH: 1574
TYPE: DNA
                                                                                                                                                                        APPLICANT: Bandman, Olga
APPLICANT: Bandman, Olga
APPLICANT: Tang, Y. Tom
APPLICANT: Hillman, Jennifer L
APPLICANT: Yue, Henry
APPLICANT: Guegler, Karl J.
APPLICANT: Corley, Neil C.
APPLICANT: Gorgone, Gina
APPLICANT: Azimzai, Yalda
APPLICANT: Lu, Aina
APPLICANT: Lu, Aina
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                           APPLICANT: Bandman, Olga
APPLICANT: Tang, Y. Tom
APPLICANT: Hillman, Jennifer L
APPLICANT: Wue, Henry
APPLICANT: Guegler, Karl J.
APPLICANT: Gorgone, Gina
APPLICANT: Gorgone, Gina
APPLICANT: Azimzai, Yalda
APPLICANT: Lu, Aina
                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                        Sequence 12, Application Patent No. 6264947
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Best Local Similarity

Matches 465; Conserv
TITLE OF INVENTION: Protein FILE REFERENCE: PF-0614 US
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Pred. No. 8.
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Agualication US/09006675
Patent No. 5952213
GENERAL INFORMATION:
APPLICANT: Hemmati-Brivanlou, Ali
APPLICANT: Weinstein, Daniel C.
TITLE OF INVENTION: A NOVEL SRC-FAMILY KINASE
TITLE OF INVENTION: USE THEREOF
NUMBER OF SEQUENCES: 12
                                                                                                                                                                                                                                                                                                                                  atgtgccagtgctggcggaaggagcctgaggagcggcccaccttcgagtacctgcaggcc 1551
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; LOCATION:
US-09-006-675-1
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Matches 822;
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 13-JAN-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
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REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-217
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              ctggaacggtaccaccagggtggccatcaaaaccctgaagcctggcacgatgtctccaga
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GTACAATGGACACAAAAGTAGCTGTAAAAACAATGAAGCCAGGCAGCATGTCCCCCGG
                                                                                                         CCAAACTGTGCGTCCAGAGAAACCATG---GGAAAAGGATGCCTGGGAGATCCCGCGCGA
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                                                                     GCTGGTACGCCATTATCAAGGTAAAGTGGATGGCCTTGTGTCAGTGCCCTTACAATACCATG
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Pred. No. 5.2e
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9-006-675-1

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PG-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:

ADDRESSEE: Klauber &

STATE: N STREET:

Hackensack New Jersey

411 Hackensack

& Jackson Avenue,

07601

USA

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RESULT 3
US-07-820-011A-1
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                                   APPLICANT: Madri, Jos
APPLICANT: Warren, St
APPLICANT: Luthringer
TITLE OF INVENTION: G
TITLE OF INVENTION: M
TITLE OF INVENTION: M
TITLE OF INVENTION: M
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                        CORRESPONDENCE ADDRESS:
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                                                           Madri, Joseph A.
Warren, Stephen L.
Luthringer, Daniel J.
Luthringer, Daniel J.
NVENTION: Genetically Engineered
NVENTION: Endothelial Cells Exhibiting
NVENTION: Migration
1951 Burr Street
                                                  and Plasminogen
                                                                                                                                                                                         US/07820011A
                                                  Activator
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NAME: Klee, Maurice M.

REGISTRATION NUMBER: 30,399

REGISTRATION NUMBER: LB-1/

REFERENCE/DOCKET NUMBER: LB-1/

TELECOMMUNICATION INFORMATION:

TELEPHONE: (203) 255 1400

TELEPHONE: (203) 254 1101

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 1602 base pairs
                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 1373; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGINAL SOURCE:
ORGANISM: Gallus, gallus
PUBLICATION INFORMATION:
AUTHORS: Takeya, Tatsuo
AUTHORS: Hanafusa, Hidesaburo
TITIE: Structure and Sequence of the
TITIE: Cellular Gene Homologous to the
TITIE: Gene and the Mechanism for Gener
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRANDEDNESS: Doub
TOPOLOGY: Linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM: MEDIUM TYPE: 5.25 in
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                                                                                                                                                                                                                                                                                                                                                                                                                    PAGES: 881-890
DATE: March, 1983
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: NUCLEIC ACID
                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL:
                                                                                                                                                                                                                                                                                            gccgagaacgtgcacggcgtggcggggggcgtttccccgcctcgcagacccccagcaag
                                                         GCACTGGCTGGCGTCACCACTTTCGTGGCTCTCTACGACTACGAGTCCCGGACTGAA
                                                                                                               CCCAAGCTCTTCGGGGGGCTTCAACACTTCTGACACCGTTACGTCGCCGCAGCGTGCCGGG
                                                                                                                                                                     ACAGCAGCCCCGACACCCACCCCCAGCCGCTCCTTTGGGACCGTGGCCACCGAG
                                                                                                                                                                                   ATGGGGAGCAGCAAGAGCCCAAGGACCCCAGCCAGCCGGCGCGCAGCCTGGAGCCA
                                                                        ccgctggccggtggagtgaccacctttgtggccctctatgactatgagtctaggacggag
                                                                                                                             Connecticut: USA
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85.2%;
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Pred. No. 5.9e-238;
0; Mismatches 229;
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Matches 1610; Conservative
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PUBLICATION INFORMATION:
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481 tcagagcggttactgctcaatgcagagaacccgagagggaccttcctcgtgcgagaaagt 540
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                        gcgccctccgactccatccaggctgaggagtggtattttggcaagatcaccagacgggag 480
                                                                                                                    TGGTGGCTGGCCCACTCGCTCAGCACAGGACAGGCTACATCCCCCAGCAACTACGTG
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Human Cellular src Gene:

Nucleotide Sequence and Derived Amino
Acid Sequence of the Region Coding for
the Carboxy-Terminal Two-Thirds of
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Gibbs, Carol P.
Arthur, Richard R.
Anderson, Stephen K.
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Gibbs, Carol P.
Tanaka, Akio
Kung, Hsing-Jien
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Fujita, Donald J.
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Best Local
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gcgtacgtggagcggatgaactacgtccaccgggaccttcgtgcagccaacatcctggtg
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                                            ggagaaaatcttctgtgcaaaatagcagattttggtttagcaaggttaattgaagacaat
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al Similarity 68.8%;
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Pred. No. 7.8e~93;
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                                                                                                                                                                                                                                     The present sequence represents a cognate transgene (CTG) which is rendered non-tumourigenic by deletion of amino acids 9-155. The CTG is used in the course of the invention. The specification describes
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cellular immunogen for immunizing a host against the effects of the product of a target proto-oncogene which is associated with a malignanacy. The cellular immunogen comprises allogenic cells transfected with transgene construct comprising a transgene cognate to target proto-oncogene and a strong promoter. The cellular immunog is useful for vaccinating a host against cancer by inserting the transgene construct into the body of the host for the expression of the transgene. The method of the invention is designed to target mutation-driven non-self determinants. The cellular immunogens induce reactivity for self-determinants in the over expressed product of tu

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The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or
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Query Match Best Local S Matches 914

Local Sin hes 914;

Similarity

56.4%; 98.9%;

Conservative

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Score 908; DE Pred. No. 3.8e 0; Mismatches

DB 22; 8.8e-162; les 10;

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The present invention describes primer sets for synthesising 5602 CC full-length cDNAs defined in the specification. Where a primer set comprises: (a) an oligordr primer and an oligonucleotide comprises one of the 5602 nucleotide sequences defined in the specification, where the complementary strand of a polynucleotide which comprises one of configuration of the sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end complementary to the complementary strand of a polynucleotide which comprises a 5'-end complementary to a complementary to
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27-AUG-1999;
11-JAN-2000;
02-MAY-2000;
09-JUN-2000;
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Query Match 75.5
Best Local Similarity 85.5
Matches 1373; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Genetically engineered endothelial cells cell migration, urokinase-type plasminogen and reduced mononuclear cell adhesion and f
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              inflammatory disease; diabetic retinopathy;
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Transformed cells produce increased amounts of pp60 c-STC and have improved therapeutic properties. They migrate at faster rates than non-transformed counterparts; have an enhanced ability to inhibit the formation of thrombi and/or dissolve thrombi once they have formed and exhibit reduced mononuclear cell adhesion. They can also be used to improve the success of surgical procedures such as coronary angioplasty, heart bypass surgery, vessel graft and stent implantation.
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## N

AAS87965 CDNA; 1699

13-FEB-2002 entry)

encoding novel human diagnostic protein

RRESULT AASS7 SAASS7 SASS7 SAS supplement; chromosome medical mapping; imaging; gene mapping; gene
g; diagnostic; genetic

WO200175067-A2

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                                         TGAGTACACGGCGCGCAAGGTGCCAAATTCCCCCATCAAGTGGACGGCTC 1300
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Sequence 2, Application PC/TUS9300445
(GENERAL INFORMATION:
APPLICANT: Bell, Leonard
APPLICANT: Madri, Joseph A.
APPLICANT: Warren, Stephen L.
APPLICANT: Luthringer, Daniel J.
TITLE OF INVENTION: Genetically Engineering Stephen L.
TITLE OF INVENTION: Endothelial Cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 seq_documentation_block:
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                                                                                             CLASSIFICATION DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION UMBER: 07/820,01
FILING DATE: 06-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Klee, MAURICE M.
REFISERECE/DOCKET NUMBER: ALX-
REFERENCE/DOCKET NUMBER: ALX-
TELECOMMUNICATION INFORMATION:
TELEPAN: (203) 255 1400
TELEPAN: (203) 254 1101
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
IPNUTTH: 53 amino 26148
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MOLECULE TYPE:
HYPOTHETICAL: N
FRAGMENT TYPE:
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                                    TYPE: AMINO ACID
TOPOLOGY: I.i.
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MEDIUM TYPE: 3.5 inch, 760 Kb storage
                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Displaywrite 3 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 1951 Burr S
CITY: Fairfield
STATE: Connecticut
                                                                                                                                                                                                                                                                                                                                   FILING DATE: 19930105
                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: DELL 486/50
OPERATING SYSTEM: DOS 5.0
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Complete Sequence
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The present sequence represents a human src family kinase (SFK) CC designated laloo. Laloo plays a key role in the transformation of early CC stage embryonic cells to mesodermal cells and is likely to be a CC proto-oncogene. SFK nucleit acids may be used to produce SFK proteins CC and the functional domains of SFK, according to standard recombinant DNA CC methodologies. The laloo SFK protein is involved in the transformation CC of early stage embryonic cells into mesodermal cells and consequently CC mutations its nucleic acids are major causes of early developmental CC disorders. SFK is also thought to be a proto-oncogene involved in tumour formation. Therefore, the nucleic acids may be used to study the CC defects and tumour growth. The nucleic acids may be used as probe to identify similar nucleic acids in biological samples and to quantify CC levels of expression. They may also be used to detect alterations within CC those nucleic acids which may be related to disease. They may also be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sec name:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Isolated nucleic acids encoding vertebrate src-family kinases useful for the detection of proto-oncogenes and for diagnosing early
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (UYRQ ) UNIV ROCKEFELLER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      src family kinase; SFK; proto-oncogene; gene therapy;
disorder; tumour formation; genetic vaccine.
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583 GACAACGCCAAGGGCCTCAACGTGAAGCACTACAAGATCCGCAAGCTGGA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            may be used to assay for agents which modulate SFK expression and activity or as antigens in the production of antibodies against SFK. The proteins may also be administered to a patient to rectify inappropriate,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
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                                                                                                 GAGAAAGTGAGACCACGAAAGGTGCCTACTGCCTCTCAGTGTCTGACTTC
                                                                                                                                                                                                                 {\tt SerLeuGluSerGluGluTrpTyrPheLysGlyMetSerArgLysGluAl}
                                                     rgAspSerGluThrMetLysGlyCysPheSerLeuSerValArgAsp...
                                                                                                                                      aGluArgGlnLeuLeuSerProValAsnLysSerGlyAlaPheMetIleA
                                                                                                                                                                            AGAGCGGTTACTGCTCAATGCAGAGAACCCGAGAGGGACCTTCCTCGTGC
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                                                                                                                                                                                                                                                                                                                                                                               u...LeuLeuLysLysGluSerGlyGluTrpTrpGluAlaCysLeuIleS
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milarity: 75.465
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